U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-289 262

Water Resources Data for Pennsylvania Water Year 1974. Part 2. Water Quality Records

(U.S.) Geological Survey, Harrisburg, PA Water Resources Div

1975

PB 289262

1974

Water Resources Data for Pennsylvania

Water Year 1974

Part 2. Water Quality Records

RECEIVED
JAN 12 1976
DATA [illegible] UNIT

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Pennsylvania Department of
Environmental Resources, the Philadelphia Water Department
and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

BIBLIOGRAPHIC DATA SHEET

1. Report No. USGS/WRD/HD-78/309

2.

3. Recipient's Accession No. PB289262

4. Title and Subtitle

Water Resources Data for Pennsylvania
Water Year 1974
Part 2. Water Quality Records

5. Report Date 1975

6.

7. Author(s)

8. Performing Organization Rept. No. USGS-WDR-PA-74-2

9. Performing Organization Name and Address

U.S. Geological Survey, Water Resources Division
P.O. Box 1107, 4th Floor, Federal Bldg.
228 Walnut Street, Harrisburg, PA 17108

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address

U.S. Geological Survey, Water Resources Division
P.O. Box 1107, 4th Floor, Federal Bldg.
228 Walnut Street, Harrisburg, PA 17108

13. Type of Report & Period Covered Annual - Oct. 1, 1973 to Sept. 30, 1974

14.

15. Supplementary Notes Prepared in cooperation with the Pennsylvania Department of Environmental Resources, the Philadelphia Water Department, and with other State, municipal, and Federal agencies.

16. Abstracts

Water resources data for the 1974 water year for Pennsylvania consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 100 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Pennsylvania.

17. Key Words and Document Analysis. 17a. Descriptors

*Pennsylvania, *Hydrologic data, *Water quality, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement

No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 473

22. Price PC 20 MF [illegible]

NTIS-35 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

1974

Water Resources Data
for
Pennsylvania
Water Year 1974

Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT PA-74-2

Prepared in cooperation with the Pennsylvania Department of
Environmental Resources the Philadelphia Water Department,
and with other State, municipal, and Federal agencies

Prepared in cooperation with

Pennsylvania Department of Environmental Resources
Pennsylvania Department of Transportation
Susquehanna River Basin Commission
Delaware River Basin Commission
Chester County Water Resources Authority
City of Easton
City of Philadelphia
Delaware Geological Survey
Corps of Engineers, U.S. Army
U.S. Environmental Protection Agency

Water resources records, 1974, for Pennsylvania are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Pennsylvania
   Part 1: Surface Water Records

2. Water Resources Data for Pennsylvania
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Federal Building
P.O. Box 1107
Harrisburg, Pennsylvania 17108

1975

CONTENTS

Page

List of water-quality stations, in downstream order, for which records are published.......... VI
Introduction.......... 1
Cooperation.......... 1
Definition of terms.......... 2
Special networks and programs.......... 12
Downstream order and station number.......... 14
Collection and examination of data.......... 15
  Solutes.......... 16
  Temperature.......... 17
  Sediment.......... 17
Water-supply papers.......... 18
Selected references.......... 19
Water quality chemical records.......... 23
Water quality sediment records.......... 365
Index.......... 461

ILLUSTRATIONS

Page

Figure 1. Photograph showing U.S. Geological Survey water-quality monitor which continuously measures selected water-quality parameters.......... V
  2-6. Double mass accumulation of annual suspended sediment discharge versus annual water discharge,
    2. Schuylkill River at Berne.......... 376
    3. Schuylkill River at Manayunk, Philadelphia.......... 383
    4. Brandywine Creek at Chadds Ford.......... 387
    5. Brandywine Creek at Wilmington, Del.......... 391
    6. Juniata River at Newport.......... 421
  7. Map of lower Delaware River basin showing locations of water-quality stations.......... 465
  8. Map Susquehanna and Potomac River basins showing locations of water-quality stations.......... 466
  9. Map of Ohio River basin showing locations of water-quality stations.......... 467

TABLES

Page

Table 1. Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre.......... 6

2. Factors for conversion of sediment concentration in milligrams per litre to parts per million.......... 8

3. Degrees Celsius (°C) to degrees Fahrenheit (°F).......... 16

4. Water-supply paper numbers and parts, water years 1944-71.......... 18

5. Factors for converting English units to International System (SI) units.......... 22

6-10. Suspended sediment concentration-duration table,

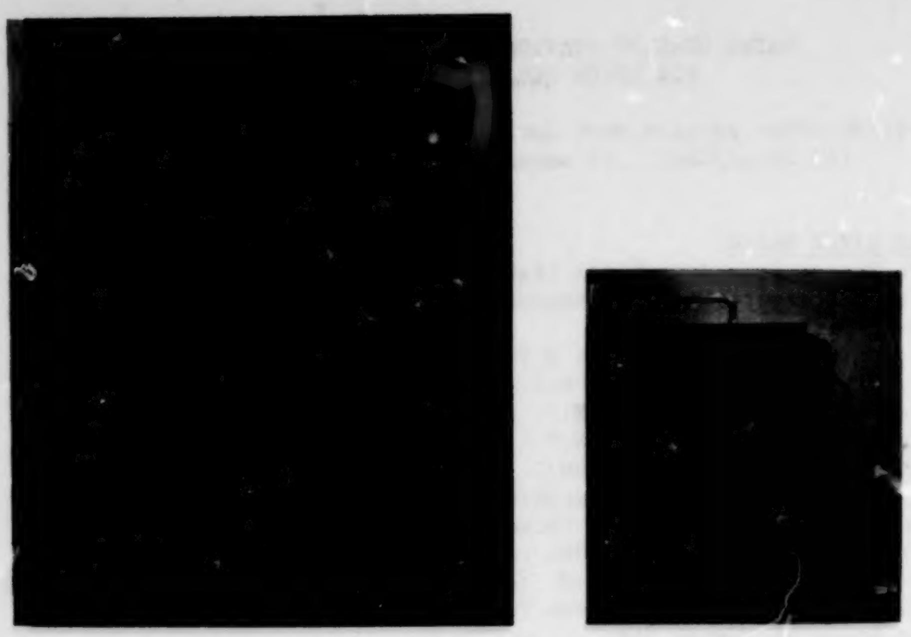
6. Schuylkill River at Berne.......... 376

7. Schuylkill River at Manayunk, Philadelphia.......... 383

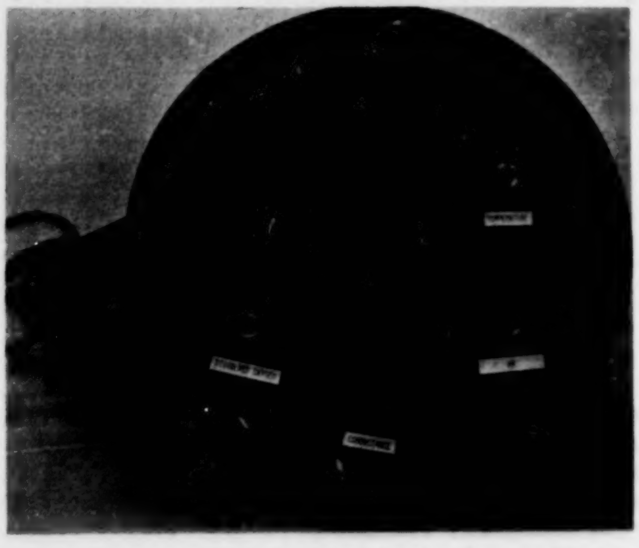
8. Brandywine Creek at Chadds Ford.......... 387

9. Brandywine Creek at Wilmington, Del.......... 391

10. Juniata River at Newport.......... 421



Front view of USGS water-quality monitor and sampling chamber which contains probes as shown below. Water is pumped continuously through sampling chamber allowing probes to immediately sense water-quality changes.



Top view of sampling chamber containing probes for measuring dissolved oxygen, specific conductance, pH, and water temperature.

Figure 1.--U.S. Geological Survey water-quality monitor which continuously measures selected water-quality parameters.

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data: (c) chemical, (b) biological, (t) water temperature, (s) sediment)

Page

DELAWARE RIVER BASIN

- Delaware Bay at Ship John Shoal Lighthouse, N.J. (ct)................ 25
- East Branch Delaware River at Hancock, N.Y. (cb).................... 29
- Delaware River:
  - Callicoon Creek at Callicoon, N.Y. (c)............................ 32
- Delaware River at Narrowsburg, N.Y. (c).............................. 34
- Delaware River at Barryville, N.Y. (c)............................... 43
  - Mongaup River near Mongaup, N.Y. (c)............................... 45
  - Lackawaxen River at Hawley (cb).................................... 36
    - Wallenpaupack Creek at Ledgedale (c)............................. 39
  - Lackawaxen River at mouth at Lackawaxen (c)........................ 41
- Delaware River near East Stroudsburg (ct)............................ 47
- Delaware River at Dunnfield, N.J. (ct,s)............................. 56,367
- Delaware River near Martins Creek (c)................................ 58
- Delaware River at Easton (ct).. 60
  - Lehigh River:
    - Pohopoco Creek at Kresgeville (t)................................. 65
    - Pohopoco Creek below Beltzville Dam near Parryville (t)........... 67
    - Jordan Creek near Pleasant Corners (c,s).......................... 69,393
    - Switzer Creek near Pleasant Corners (c,s)......................... 70,393
    - Lyon Creek at Lyon Valley (c,s)................................... 72,393
    - Mill Creek near Schnecksville (c,s)............................... 73,393
    - Jordan Creek near Schnecksville (c,s)............................. 74,394
  - Lehigh River at Easton (ct).. 76
- Delaware River at Riegelsville, N.J. (c)............................. 83
- Delaware River at Trenton, N.J. (ct,s)............................... 84,370
- Delaware River at Marine Terminal, Trenton, N.J. (ct)................ 95
- Delaware River at Bristol, Pa.-Burlington, N.J. Bridge (ct).......... 99
- Delaware River at Torresdale Intake, at Philadelphia (ct)............ 107
- Delaware River at Lehigh Avenue, Philadelphia (c).................... 115
- Delaware River at Benjamin Franklin Bridge, Philadelphia (ct)........ 116
- Delaware River at Wharton Street, Philadelphia (c)................... 124
- Delaware River at League Island, Philadelphia (c).................... 125
  - Schuylkill River at Berne (ct,s)................................... 126,373
    - Tulpehocken Creek at Bernville (c,s).............................. 128,394
      - Northkill Creek at Bernville (c,s)............................... 130,394
    - Tulpehocken Creek at Blue Marsh Damsite near Reading (ct,s)....... 132,377
  - Schuylkill River at Manayunk, Philadelphia (s)..................... 380
  - Schuylkill River at Philadelphia (ct).............................. 136
- Delaware River at Fort Mifflin (t)................................... 143
- Delaware River at Eddystone (c)...................................... 145
- Delaware River at Chester (ct)....................................... 146
- Delaware River at Marcus Hook (c).................................... 153

DELAWARE RIVER BASIN--Continued
Delaware River:
Christiana River:
Page

West Branch Brandywine Creek at Modena (ct)........................ 155

East Branch:

Marsh Creek near Downingtown (t)........................... 162
East Branch Brandywine Creek below Downingtown (ct)........... 205
Brandywine Creek at Chadds Ford (ct,s)........................ 171,384
Brandywine Creek at Wilmington, Del. (c,s)..................... 179,388
Delaware River at Delaware Memorial Bridge, near Wilmington, Del. (ct).. 180
Delaware River at Reedy Island Jetty, Del. (ct)..................... 187

SUSQUEHANNA RIVER BASIN

Susquehanna River near Great Bend (c)............................ 216
Tioga River at Lambs Creek (c,s)................................ 217,445
Mill Creek near Tioga (c,s)..................................... 219,445
Tioga River at Tioga (c,s)...................................... 221,446
Crooked Creek at Middlebury Center (c,s)......................... 223,446
Crooked Creek at Tioga (c,s).................................... 225,447
Tioga River at Tioga Junction (c,s)............................. 227,447
Cowanesque River at Westfield (c,s)............................. 229,448
Mill Creek at Westfield (c,s)................................... 231,448
Cowanesque River at Cowanesque (c,s)............................ 233,449
Troups Creek at Knoxville (c,s)................................. 235,449
Cowanesque River at Nelson (c,s)................................ 237,450
Cowanesque River near Lawrenceville (ct,s)....................... 239,450
Tioga River at Lindley, N.Y. (ct,s)............................. 242,395
Susquehanna River near Hunlock Creek (c,s)....................... 245,451

Fishing Creek:

Applemans Run above Light Street (c,s).......................... 248,397
Applemans Run below Light Street (c,s).......................... 249,399
Susquehanna River at Danville (c,s)............................. 250,401
West Branch Susquehanna River at Renovo (ct)..................... 253
Young Womans Creek near Renovo (c,s)............................ 258,453
Bald Eagle Creek near Milesburg (t)............................. 261
Bald Eagle Creek at Blanchard (t)............................... 263
Beech Creek at Monument (ct).................................... 265

Pine Creek:
Little Pine Creek:
Blockhouse Creek:

Blockhouse Creek tributary at Liberty (ct,s).............. 272,403
Blockhouse Creek at Buttonwood (ct,s).......................... 275,406
Steam Valley Run at Buttonwood (ct,s).......................... 278,409
Blockhouse Creek near English Center (ct,s)..................... 281,412
West Branch Susquehanna River at Watsontown (c,s)................ 284,415
West Branch Susquehanna River at Lewisburg (c)................... 285
Susquehanna River at Sunbury (c,s).............................. 286,453

Juniata River:

Raystown Branch Juniata River at Saxton (c)..................... 289

SUSQUEHANNA RIVER BASIN--Continued
Susquehanna River:
  Juniata River:
    Raystown Branch:

Page
      Raystown Lake near Entriken (c)................................ 290
      Raystown Lake near Marklesburg (c)............................. 291
      Raystown Lake near Hesstown (c)................................ 292
      Raystown Lake near Huntingdon (c).............................. 293
    Raystown Branch Juniata River at Ardenheim (c,s)................ 295,454
  Juniata River at Newport (ct,s).................................... 296,418
  Stony Creek above pump storage reservoir site near Dauphin (ct)... 298
  Stony Creek below pump storage reservoir site near Dauphin (ct)... 300
  Conodoguinet Creek at Willow Mill Bridge near Hogestown (ct,s).... 302,422
  Conodoguinet Creek tributary No. 1 near Enola (c,s)............... 304,424
  Conodoguinet Creek tributary No. 2 near Enola (c,s)............... 306,427
  Conodoguinet Creek tributary No. 2A near Enola (c,s).............. 308,430
  Conodoguinet Creek tributary No. 2B near Enola (c,s).............. 310,433
  Conodoguinet Creek tributary No. 3 near Enola (c,s)............... 312,436
Susquehanna River at Harrisburg (cbt,s)............................. 314,439
  Conestoga River at Lancaster (ct,s)............................... 326,443

OHIO RIVER BASIN
Allegheny River:
  Clarion River:

    Toby Creek near Clarion (c)...................................... 339
  Redbank Creek at St. Charles (c)................................... 340
Allegheny River at New Kensington (c)................................ 341
  Monongahela River at lock and dam 8, at Point Marion (c).......... 342
  Monongahela River at Braddock (cbt,s)............................. 343,455
Ohio River at Sewickley (c)... 349
Analyses of samples collected at water-quality partial-record
      stations in Delaware River basin (c,s)........................ 194,392
Analyses of samples collected at water-quality partial-record
      stations in Susquehanna River basin (c,s)..................... 328,445
Analyses of samples collected at water-quality partial-record
      stations in Potomac River basin (c)........................... 338
Analyses of samples collected at water-quality partial-record
      stations in Ohio River basin (c,s)............................ 350,459

WATER RESOURCES DATA FOR PENNSYLVANIA, 1974

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1974 water year for Pennsylvania include records of data for the chemical and physical characteristics of surface water. Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. A few pertinent stations in bordering States are also included. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of Norman H. Beamer, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Pennsylvania.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

State Department of Environmental Resources, M. K. Goddard, secretary, through the following: Office of Engineering and Construction, C. H. McConnell, deputy secretary. State Soil and Water Conservation Commission, W. N. Peechatka, executive secretary. Office of Environmental Protection and Regulation, W. E. Gilbertson, deputy secretary.

State Department of Transportation, J. G. Kassab, secretary, through the Bureau of Materials, Testing, and Research, L. D. Sandvig, director.

Susquehanna River Basin Commission, R. J. Bielo, executive director.

Delaware River Basin Commission, J. F. Wright, executive director.

Chester County Water Resources Authority, D. C. Yaeck, executive director.

City of Easton, F. L. Ashton, Jr., mayor.

City of Philadelphia, Water Department, C. F. Guarino, water commissioner.

Delaware Geological Survey, R. R. Jordan, state geologist.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, Baltimore and Philadelphia Districts, and the U.S. Environmental Protection Agency.

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data as used in the report are defined below. See also table for converting English units to International System of units (SI) on page 22.

Acre-foot (AC-FT, ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Benthic organisms (invertebrates) are animals inhabiting the bottom of an aquatic environment. They include a number of different types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are frequently used as indicators of environmental quality because many have restricted mobility during their aquatic life phase, as well as a relatively long lifespan which allows for response to prevailing and changing water-quality conditions. Many benthic organisms inhabit specific types of environments which, if changed, result in changes in the composition of the benthic community.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic metre), and periphyton and benthic organisms in g/m^2 (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Organic weight or volatile weight of the living substance is the difference between the dry weight and the ash weight, and represents the actual weight of the living matter. The organic weight is expressed in the same units as for ash and dry weights.

Wet weight is the weight of living matter plus contained water.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate incubation membrane filter method.

Continuing record station is a specified site which meets one or all conditions listed: (1) When chemical samples are collected daily or monthly for 10 or more months during the water year. (2) When water temperature records include observations taken once or more times daily. (3) When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Cubic foot per second (CFS, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Diversity index is a numerical rating of the variety of the aquatic organisms. The greater the number of different types of organisms, the greater the diversity. The formula for diversity index is

$$d = -\Sigma \frac{ni}{n} \log_2 \frac{ni}{n},$$

where ni is the number of individuals per taxon, and n is the total number of individuals.

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Macrophytes are large macroscopic plants in the aquatic environment. The most commonly occurring macrophytes are the rooted vascular plants that are usually arranged in zones and delineated by the extent of illumination and sedimentation. The dominant plant forms in these environmental gradients are (1) submersed rooted aquatics, (2) floating leaved, rooted aquatics, (3) emersed rooted aquatics, and (4) marginal mats. Growth of aquatic macrophytes depends on the availability of nutrients. In some waters nutrient enrichment results in excessive growth of macrophytes, and this accelerated productivity often results in a major nuisance condition and an important water-quality problem.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (μG/L, μg/l) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations are converted to parts per million by using the factors in table 2, page 8.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*.......	0.11119	Iodide (I^{-1})..........	0.00788
Ammonia as NH_4^{+1}.......	.05544	Iron (Fe^{+3})*..........	.05372
Barium (Ba^{+2})...........	.01456	Lead (Pb^{+2})*..........	.00965
Bicarbonate (HCO_3^{-1})...	.01639	Lithium (Li^{+1})*.......	.14411
Bromide (Br^{-1})..........	.01251	Magnesium (Mg^{+2})......	.08226
Calcium (Ca^{+2})..........	.04990	Manganese (Mn^{+2})*....	.03640
Carbonate (CO_3^{-2})......	.03333	Nickel (Ni^{+2})*.......	.03406
Chloride (Cl^{-1}).........	.02821	Nitrate (NO_3^{-1})......	.01613
Chromium (Cr^{+6})*.......	.11539	Nitrite (NO_2^{-1})......	.02174
Cobalt (Co^{+2})*.........	.03394	Phosphate (PO_4^{-3})....	.03159
Copper (Cu^{+2})*.........	.03148	Potassium (K^{+1})......	.02557
Cyanide (CN^{-1}).........	.03844	Sodium (Na^{+1})........	.04350
Fluoride (F^{-1}).........	.05264	Strontium (Sr^{+2})*....	.02283
Hydrogen (H^{+1}).........	.99209	Sulfate (SO_4^{-2})......	.02082
Hydroxide (OH^{-1}).......	.05880	Zinc (Zn^{+2})*.........	.03060

---

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

Nekton are the consumers of the aquatic environment consisting of large free-swimming organisms that are capable of sustained, directed mobility. The nekton community consists primarily of fish. In most lakes and streams fish are at the upper end of the food chain, and are often the most economically important organisms to man. Because they are dependent upon the life forms below them for food, the well-being of a fish population often is used as an index to water quality, and to the well-being of other aquatic organisms.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres (l).

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually millilitres (ml) or litres (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Table 2.--Factors for conversion of [illegible]ment concentration in milligrams per litre to part [illegible]r million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	266 - 280	1.17	540 - 554	1.34
8.05 - 24	1.01	282 - 297	1.18	556 - 570	1.35
24.2 - 40	1.02	299 - 313	1.19	572 - 585	1.36
40.5 - 56	1.03	315 - 329	1.20	587 - 602	1.37
56.5 - 72	1.04	331 - 345	1.21	604 - 617	1.38
72.5 - 88	1.05	347 - 361	1.22	619 - 634	1.39
88.5 - 104	1.06	363 - 378	1.23	636 - 650	1.40
105 - 120	1.07	380 - 393	1.24	652 - 666	1.41
121 - 136	1.08	395 - 409	1.25	668 - 682	1.42
137 - 152	1.09	411 - 424	1.26	684 - 698	1.43
153 - 169	1.10	427 - 440	1.27	700 - 715	1.44
170 - 185	1.11	443 - 457	1.28	717 - 730	1.45
186 - 200	1.12	460 - 473	1.29	732 - 747	1.46
201 - 217	1.13	476 - 489	1.30	749 - 762	1.47
218 - 232	1.14	492 - 506	1.31	765 - 780	1.48
234 - 248	1.15	508 - 522	1.32	782 - 796	1.49
250 - 264	1.16	524 - 538	1.33	798 - 810	1.50

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoans, entomostracans, and various larvae).

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per millilitre (cells/ml) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per 100 ml of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Sediment trend curve or double mass curve as used in this report is a plot of the cumulative sediment discharge against cumulative water discharge for the period of record. A straight line relation is indicative of a constancy in proportionality between the two variables. A change in the slope of the relation is indicative of a change of proportionality of the variables. Because water discharge is considered the independent variable, an increase in slope from the previous slope indicates an increase in sediment discharge while a decrease in slope indicates a decrease in sediment discharge.

Suspended sediment concentration-duration table is a cumulative frequency table that shows the percentage of time that specified suspended sediment concentrations are equaled or exceeded.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The use of artificial substrates simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Seston is the total suspended particulate matter in water. The concentration of particulate matter has a profound effect upon the optical properties of the water, and upon the concentration of dissolved materials in the water. Their concentrations are expressed in milligrams per litre (mg/l).

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular may fly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir. See also table for converting English Units to International Units (SI) on page 22.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from man-made changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in μg/l (micrograms per litre), radium as radium-226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/ yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (μg/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized sediments in the samples are also determined.

A picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10}radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record, miscellaneous, and continuous-record stations; therefore, the station number indicates downstream order position in a list made up of all types of stations. Water-quality stations located at or near gaging stations have the same number as the gaging station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 01570500 which appears just to left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "570500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basin) and Part 3 (Ohio River basin). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

Downstream order station numbers are not assigned to sites where only random water-quality samples are taken. These sites are classified as water-quality miscellaneous sites and as a means of location and identification a 15-digit number consisting of the latitude and longitude coordinates to the nearest second for each site plus a 2-digit sequential number as assigned. For example, the station number for a water-quality miscellaneous site with lat 42°28'47", long 071°41'04", would be 422847071410401.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Pennsylvania have been released in the report, "Water Resources Data for Pennsylvania, 1973, Part 1. Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperature was reported in degrees Fahrenheit (°F).

In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per millions and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre. (See "Definition of Terms," page 5, and table for converting English units to SI units, page 19.)

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

---

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determinations of carbonate and bicarbonate in the laboratory.

For chemical quality stations equipped with continuous digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured, and are based upon 15-minute punches beginning at 0015 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on the back of the title page of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

WATER-SUPPLY PAPERS

Th annual series of water-supply papers that give information on quality of surface waters in Pennsylvania are shown in the following table. Data for the North Atlantic Slope basins are given in part 1, and for the Ohio River basin, in part 3.

Table 4.--Water-supply paper numbers and parts, water years 1944-71

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Part 1	Part 2	Part 3
1944	A1022	1959	1641	1642	----	----	----
1945	A1030	1960	1741	1742	----	----	----
1946	A1050	1961	1881	1882	----	----	----
1947	A1102	1962	1941	1942	----	----	----
1948	B1132	1963	1947	1948	----	----	----
1949	B1162	1964	1954	1955	----	----	----
1950	1186	1965	1961	1962	----	----	----
1951	1197	1966	1991	1992	----	----	----
1952	1250	1967	2011	2012	----	----	----
1953	1290	1968	----	----	2091	C2092	C2093
1954	1350	1969	----	----	C2141	C2142	C2143
1955	1400	1970	----	----	C2151	C2152	C2153
1956	1450	1971	----	----	C2161	C2162	C2163
1957	1520						
1958	1571						

A Parts 1-14; B Parts 1-6; C In press.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.

American Society for Testing and Materials, 1971, Annual book of standards, part 23, water; atmospheric analysis: Am. Soc. for Testing and Materials, Philadelphia, Pa., 936 p.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.

Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.

Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.

Barnett, P. R., and Mallory, Jr., E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques Water Resources Inv., book 5, chap. A2, 31 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

______1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

______1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques Water Resources Inv., book 3, chap. C1, 55 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, second edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromotography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.

Land, E. W., and others, 1947, Report of Subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-939.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Lohman, S. W., and others, 1972, Definitions of selected ground-water terms--revisions and conceptual refinements: U.S. Geol. Survey Water-Supply Paper 1988, p. 2.

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p. (open file).

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., p. 257.

Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques Water Resources Inv., book 5, chap. A4, 165 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____1941, Methods of analyzing sediment samples: Rept. 4.

_____1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10

_____1957, The development and calibration of visual accumulation tube: Rept. 11.

_____1957, Some fundamentals of particle size analysis: Rept. 12.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of fluvial sediment discharge: Rept. 14.

_____1963, A summary of the work of the Inter-agency sedimentation project: Rept. S.

Table 5.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4,047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	$3.785x10^{-3}$	cubic metres (m^3)
million gallons (10^6 gal)	3,785	cubic metres (m^3)
	$3.785x10^{-3}$	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2,447	cubic metres (m^3)
	$2.447x10^{-3}$	cubic hectometres (hm^3)
acre-feet (acre-ft)	1,233	cubic metres (m^3)
	$1.233x10^{-3}$	cubic hectometres (hm^3)
	$1.233.10^{-6}$	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	$6.309x10^{-5}$	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SECTION A

CHEMICAL RECORDS

Preceding page blank

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, water-quality recorder on lightship in bay opposite Bombay Hook Island, Del., and 3 mi (4.8 km) south southwest of mouth of Cohansey River, N.J.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.
Water temperatures: February 1970 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 30,010 micromhos July 17; minimum, 3,500 micromhos Dec. 30.
Water temperatures: Maximum, 28.0°C Aug. 28 to Sept. 1; minimum, 2.0°C Feb. 12.

Period of record:
Specific conductance (1968-74): Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 1,500 micromhos Mar. 4, 1971.
Water temperatures: Maximum, 30.0°C Aug. 1, 1970; minimum, 0.5°C Feb. 9, 15, 1970.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24920	17360	---	23080	15640	20550	25080	16130	21200	12300	5090	9100
2	---	---	---	20690	14680	18360	26710	19430	22770	12680	5550	9430
3	---	---	---	20920	15080	18600	26540	17990	22760	15710	5020	10490
4	---	---	---	22480	16360	19360	26200	18980	22920	14560	7400	11900
5	---	---	---	22840	15220	20060	26710	22360	24670	17630	8700	14190
6	---	---	---	24460	14320	22100	25400	19700	23280	19250	11150	15790
7	---	---	---	23900	18710	22260	24040	18710	22570	20580	12620	17150
8	---	---	---	26370	20470	23800	26540	19610	23780	18980	12300	15390
9	---	---	---	26540	22000	23950	29420	20800	24970	20250	12920	16330
10	---	---	---	26370	21160	23550	24760	18080	21830	20470	12860	16720
11	---	---	---	27220	22240	24540	25240	17270	20890	20250	12920	16940
12	---	---	---	27220	21760	24930	23760	16520	20320	17810	12050	15270
13	---	---	---	26880	21520	24500	24460	16760	20570	17090	9120	13960
14	---	---	---	27050	20360	23850	22720	16060	19690	17810	11060	14840
15	---	---	---	27220	20690	---	20360	13500	17720	16060	10220	13520
16	26880	22360	---	25080	19520	22590	19810	14260	17750	16760	8520	13330
17	26540	22000	24090	24760	18530	22260	23080	11720	19760	18530	12400	15490
18	26540	21520	24180	25400	18440	22780	19700	13900	17590	19070	12250	15840
19	27390	20470	24350	24760	20470	23030	21400	14740	18460	19520	8670	15740
20	26040	21760	24410	27050	21160	24560	23340	16360	20220	19250	12400	---
21	26710	22000	24470	27730	22240	25500	23200	13040	18580	20920	14620	18020
22	26540	22960	24760	27050	22600	25210	15010	6350	11130	19700	14140	17270
23	26710	22000	24470	27390	22240	25190	13450	5520	9890	19160	14380	16990
24	26710	22720	24600	27900	22120	25400	13960	5520	9700	19520	13150	16580
25	28280	23200	25560	27050	21280	24510	13600	6040	10290	18440	12860	16010
26	29610	24760	26930	28280	22120	24790	14680	6960	10800	17360	11680	15160
27	26880	22840	25300	27900	21640	25590	12920	5520	9380	16760	10460	13740
28	28280	23620	25900	27050	21760	24810	13200	5330	9400	16130	9420	13680
29	29800	25400	27230	24760	18350	---	13350	4870	8770	15430	8390	13000
30	26040	20250	23800	23200	16130	21190	10540	3500	7550	23480	8700	13550
31	24760	18890	22440	---	---	---	11760	4680	8160	16360	8800	12810
MONTH	---	---	---	28280	14320	23140	29420	3500	17330	23480	5020	14610

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14380	7800	10530	17810	13150	15560	15290	7140	11810	17810	12740	15960
2	15500	6040	12170	19250	11960	16200	16760	10580	13610	19160	12620	16630
3	19250	11150	15190	19920	10940	16940	16060	10220	13720	19160	13720	16760
4	18980	12860	16770	20690	13300	17360	15780	9290	13240	20140	13100	16030
5	20250	14320	17000	17720	12560	15660	13500	7530	11040	20470	13250	16970
6	22120	14320	18120	18800	12450	15890	13350	5740	9590	20580	14800	17800
7	22000	15640	18520	20250	10780	16680	13500	5590	8910	19920	13100	16800
8	22600	15780	19200	18890	10940	15910	10740	4730	7550	19920	14260	17060
9	23200	14260	19080	19430	12860	16620	12050	5170	8860	20800	14320	17140
10	20690	14320	18220	19810	12500	15710	9920	3930	7320	18620	12680	16090
11	21160	11760	16870	18620	11060	15200	11250	4870	7770	17360	11500	15190
12	19520	11300	16190	19160	11100	15220	10900	4680	8100	19160	13150	16160
13	19520	12400	16910	16920	8770	14220	11500	4350	8510	17270	11020	14020
14	19700	13040	16630	17090	9670	13320	11550	6350	9030	16200	9060	13200
15	20140	13600	17460	19520	11020	14720	11640	5850	8310	14680	8330	12210
16	19520	11840	16780	18620	12450	15580	13550	4430	8470	14940	7880	11910
17	22360	14440	18490	17990	11960	14710	15290	5040	10070	15500	7610	12320
18	22960	15990	20120	15990	9250	12570	16200	7990	12590	17000	9190	12950
19	23340	17540	20950	19520	8890	14950	18980	10740	14740	17630	9960	13990
20	22840	19520	21160	19920	14380	17080	18260	13040	15860	18890	11720	14590
21	23080	18080	20710	21640	15290	17850	16920	11600	14730	18710	12800	14900
22	23620	18710	20830	18620	11300	15620	16060	10030	12870	19340	12680	15250
23	20920	13780	16770	18890	12980	16120	16200	10740	13000	20470	12680	15890
24	19250	14200	16510	18530	12980	16290	17540	10380	13480	19520	10940	16270
25	19810	13960	17570	17810	11400	15170	18980	10780	15180	19700	10940	16460
26	19520	13450	16870	17810	11200	15130	20250	12620	16640	21040	12150	16610
27	20030	12920	17070	16840	10620	14080	19520	12300	16460	21160	10940	17660
28	19430	12680	16420	17090	9880	14020	18710	11550	15810	20360	13600	18010
29	---	---	---	18260	12920	15920	17270	11840	15340	20470	12500	17250
30	---	---	---	19920	14940	17490	17990	12500	15380	21040	14080	17940
31	---	---	---	18710	8990	14270	---	---	---	22000	14680	17990
MONTH	23620	6040	17470	21640	8770	15550	20250	3930	11930	22000	7610	15740

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20140	13500	17650	23900	19340	21660	26880	24180	---	27390	22000	24370
2	21520	14620	17660	23760	17450	21600	---	---	---	27390	22000	24300
3	21160	14380	18110	23340	18890	21190	---	---	---	26880	21280	24750
4	21520	14740	17850	23620	17990	21040	---	---	---	24760	20250	23000
5	20030	14440	17520	23480	17900	21020	25880	21520	---	25560	20920	23700
6	20580	13040	17250	23480	19340	21350	26880	22120	24570	26040	21400	24290
7	20580	16680	18520	23480	18530	21390	26370	21040	24030	26200	19920	23690
8	22240	15220	18900	23620	18440	21430	25720	21640	23790	25080	16280	22190
9	21760	13250	18440	23900	18710	21670	28850	22960	25470	25400	17180	21500
10	20800	14140	18220	24180	18440	21780	28090	23480	25930	24760	15990	21240
11	21640	16360	19220	24040	20920	22670	26880	22120	---	24920	15430	21400
12	22360	17810	19670	24920	21280	23450	26880	20920	---	25560	17000	22270
13	22240	17360	20010	26540	19920	23770	27730	21040	24920	25720	19160	22420
14	23620	17900	21390	27730	21040	24710	28470	22480	25620	26040	18800	22450
15	24760	19340	22070	28090	22600	25520	29420	23080	26010	26880	19520	23440
16	24040	19610	21900	28850	23080	25810	29420	23620	26460	26040	18800	22690
17	23760	19610	21600	30010	24600	26960	28470	20470	25870	26200	19250	22720
18	24320	19250	21460	28850	23760	26590	28660	23200	26090	25560	19340	22670
19	23900	18620	21300	28090	23340	25820	29230	22840	26190	25560	19340	22670
20	23200	18260	20630	28280	23620	26090	29230	22960	26150	25080	17630	22210
21	22840	17270	20320	29610	24040	27090	29040	23900	26500	24040	18170	21410
22	23080	17990	20650	29610	24180	26860	29040	23620	26340	24180	16840	20240
23	24040	18890	21460	28850	24180	26710	27560	22120	25130	23760	16200	20960
24	25080	19810	22550	28470	24320	26590	25880	20580	23790	26540	18170	21980
25	25560	20030	22940	28660	24320	26270	26710	20580	23740	27560	18890	23060
26	24460	20030	22820	28280	24180	26410	27220	20140	23940	27050	18800	23150
27	24320	16680	21470	27730	23760	25800	26370	21040	23830	27220	21040	24260
28	24920	20920	22820	27900	22960	25600	25240	19430	23150	28280	21640	24960
29	23900	18620	21940	28470	22600	25760	25720	19520	23200	26710	20470	24600
30	23620	18170	21330	27900	23480	25880	25880	20690	23180	24040	18890	22100
31	---	---	---	27730	22840	25580	26540	21400	23950	---	---	---
MONTH	25560	13040	20250	30010	17450	24320	29420	19430	---	28280	15430	22820

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	21.0	21.5	15.5	15.0	15.0	10.5	9.5	10.0	5.0	4.5	4.5
2	---	---	---	15.5	14.5	15.0	9.5	8.5	9.0	4.5	4.0	4.5
3	---	---	---	15.0	14.5	15.0	9.5	8.5	9.0	4.5	4.0	4.0
4	---	---	---	14.5	14.0	14.5	9.5	9.0	9.5	4.5	4.0	4.5
5	---	---	---	14.5	13.5	14.0	10.0	9.5	10.0	4.5	4.0	4.0
6	---	---	---	13.5	13.0	---	10.0	9.5	10.0	4.5	4.0	4.0
7	---	---	---	13.0	12.0	---	10.0	9.5	9.5	4.5	4.0	4.5
8	---	---	---	13.0	12.0	12.5	9.5	9.0	9.5	4.5	4.0	4.0
9	---	---	---	12.0	11.5	---	9.5	8.5	9.0	4.5	4.0	4.0
10	---	---	---	11.5	10.5	11.0	9.0	8.5	9.0	4.5	4.0	4.0
11	---	---	---	11.0	10.0	10.0	8.5	8.0	8.0	4.5	4.0	4.0
12	---	---	---	10.5	9.5	10.0	8.0	8.0	8.0	4.0	3.5	3.5
13	---	---	---	10.0	9.5	---	8.0	8.0	8.0	3.5	3.0	3.0
14	---	---	---	10.0	9.5	10.0	8.0	8.0	8.0	3.0	3.0	3.0
15	---	---	---	10.5	10.0	---	8.0	7.0	7.5	3.0	3.0	3.0
16	20.0	19.5	---	10.5	10.0	10.0	8.0	6.5	7.0	3.5	3.0	3.0
17	19.0	17.0	18.5	10.0	9.5	9.5	6.5	5.0	6.0	3.5	3.0	3.0
18	18.5	18.0	18.0	9.5	9.0	---	5.5	4.5	5.0	3.0	3.0	3.0
19	18.0	17.0	17.5	10.0	9.5	9.5	5.0	4.0	4.5	3.0	3.0	3.0
20	17.0	16.5	17.0	10.0	9.5	9.5	5.0	4.5	4.5	3.0	3.0	3.0
21	17.0	16.5	17.0	9.5	9.5	---	5.0	4.5	5.0	3.5	3.0	3.0
22	17.0	16.5	17.0	10.0	9.5	---	4.5	4.5	4.5	4.0	3.0	3.5
23	17.0	16.5	17.0	10.0	10.0	---	4.5	4.0	4.5	4.0	3.0	3.5
24	18.0	16.5	17.0	10.0	10.0	---	4.5	4.0	4.5	4.0	4.0	4.0
25	17.0	16.5	17.0	10.5	10.0	---	4.5	4.0	4.0	4.5	4.0	4.0
26	17.0	16.5	17.0	11.0	10.5	---	4.5	4.0	4.5	4.5	4.0	4.0
27	17.0	16.5	16.5	11.0	10.5	---	5.0	4.5	4.5	5.5	4.5	5.0
28	16.5	16.0	16.5	11.5	11.0	---	5.5	4.5	5.0	5.0	5.0	5.0
29	16.5	16.0	16.5	11.5	10.5	11.0	5.0	4.5	5.0	5.5	5.0	5.0
30	16.5	15.5	15.5	10.5	10.0	---	5.0	4.5	5.0	6.0	5.0	5.0
31	15.5	15.0	15.5	---	---	---	5.0	4.5	4.5	6.0	5.5	5.5
MONTH	---	---	---	15.5	9.0	---	10.5	4.0	7.0	6.0	3.0	4.0

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.5	6.0	---	---	---	15.0	11.5	12.5	16.5	15.0	15.5
2	6.5	6.0	6.0	---	---	---	14.0	10.0	12.5	16.0	15.5	15.5
3	8.0	6.5	7.5	---	---	---	12.0	8.5	10.0	15.5	15.5	15.5
4	8.5	8.0	8.0	---	---	---	9.5	8.5	8.5	16.0	15.0	15.5
5	8.0	6.5	7.5	---	---	---	9.5	9.0	9.5	16.0	15.0	15.5
6	6.5	4.5	5.5	---	---	---	9.5	9.0	9.5	15.5	15.0	15.0
7	5.0	4.0	4.5	---	---	---	10.0	9.0	9.5	15.5	15.0	15.0
8	4.0	3.0	3.5	---	---	---	10.0	9.5	9.5	15.5	15.0	15.0
9	3.0	3.0	3.0	---	---	---	10.5	9.5	10.0	15.5	15.0	15.0
10	3.0	3.0	3.0	---	---	---	13.0	10.5	12.0	16.5	15.0	15.5
11	3.0	3.0	3.0	---	---	---	11.5	9.5	10.5	16.5	15.5	15.5
12	3.0	2.0	3.0	---	---	---	11.0	10.0	10.5	16.5	15.5	16.0
13	3.0	3.0	3.0	8.0	6.5	---	11.5	10.0	10.5	16.5	16.0	16.0
14	3.0	3.0	3.0	6.5	6.0	6.5	11.5	10.5	11.0	18.0	16.0	16.5
15	3.0	3.0	3.0	8.0	6.0	6.5	12.0	11.0	11.5	18.0	16.5	17.5
16	3.0	3.0	3.0	8.0	6.5	7.0	12.0	11.0	11.5	19.0	17.0	18.0
17	3.0	3.0	3.0	7.0	6.5	6.5	13.0	11.5	12.5	19.5	17.0	18.5
18	3.0	3.0	3.0	8.0	6.0	6.5	13.5	12.0	12.5	19.5	19.0	19.5
19	3.5	3.0	3.0	8.5	6.5	---	13.0	12.0	12.0	20.0	18.5	19.5
20	3.5	3.0	3.5	9.0	8.0	---	13.5	11.5	12.0	19.5	18.5	19.0
21	4.0	3.5	3.5	8.0	8.0	8.0	13.0	12.0	12.5	20.0	18.5	19.0
22	4.5	3.0	4.0	8.0	7.0	8.0	13.5	13.0	13.0	20.5	19.0	19.5
23	5.0	4.5	4.5	9.5	8.0	8.0	14.0	13.5	13.5	20.0	19.0	19.5
24	8.0	4.5	6.0	12.0	8.5	9.5	14.0	13.0	13.5	20.0	19.0	19.5
25	---	---	---	8.5	8.0	8.0	13.5	13.0	13.0	20.0	19.5	19.5
26	---	---	---	8.0	7.0	8.0	14.0	13.0	13.5	20.0	19.0	19.5
27	---	---	---	8.0	7.0	8.0	14.5	13.0	14.0	19.5	19.0	19.0
28	---	---	---	8.0	8.0	8.0	15.0	13.5	14.0	19.5	18.5	19.0
29	---	---	---	8.0	8.0	8.0	15.5	14.5	15.0	19.0	18.5	19.0
30	---	---	---	8.0	8.0	8.0	16.5	15.0	15.5	19.5	18.5	19.0
31	---	---	---	12.0	8.0	8.5	---	---	---	19.5	18.5	19.0
MONTH	8.5	2.0	4.5	---	---	---	16.5	8.5	12.0	20.5	15.0	17.5

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	19.0	19.0	23.0	21.5	22.0	26.5	25.5	25.5	28.0	27.0	27.0
2	19.5	18.5	19.0	23.5	22.0	22.5	26.0	25.5	---	27.0	27.0	27.0
3	19.5	18.5	19.0	24.0	23.0	23.0	---	---	---	27.0	26.5	26.5
4	19.5	19.0	19.0	24.5	23.5	23.5	---	---	---	26.5	24.5	26.0
5	20.0	19.0	19.5	24.5	24.0	24.0	26.5	26.5	---	26.0	25.0	25.5
6	20.5	19.5	19.5	25.0	24.0	24.0	26.0	24.5	26.0	25.0	24.0	24.5
7	20.0	19.5	19.5	25.5	24.0	24.5	26.0	25.5	26.0	24.0	23.5	24.0
8	20.5	19.5	20.0	26.5	24.5	25.0	26.0	25.5	25.5	24.0	23.0	23.5
9	22.0	19.5	20.5	26.5	25.0	25.5	25.5	25.0	25.5	24.0	23.0	23.5
10	23.0	20.5	21.0	26.0	25.5	26.0	25.5	24.5	25.0	24.0	23.5	23.5
11	22.0	21.0	21.5	26.0	25.5	26.0	25.0	24.0	---	24.0	24.0	24.0
12	22.0	21.5	21.5	25.5	24.5	25.0	26.0	25.0	---	24.5	24.0	24.0
13	23.0	21.0	21.5	25.5	24.5	25.0	26.5	25.0	25.5	25.0	24.0	24.5
14	23.0	21.5	21.5	26.0	24.5	25.0	26.0	25.0	25.5	24.5	24.0	24.5
15	23.0	21.5	22.0	26.0	25.0	25.5	26.0	25.5	26.0	24.5	24.0	24.0
16	23.0	22.0	22.0	26.0	25.0	25.5	26.0	26.0	26.0	24.0	23.5	23.5
17	23.5	22.0	22.5	25.5	24.5	25.0	26.0	26.0	26.0	24.0	23.5	23.5
18	23.5	22.0	23.0	25.5	25.0	25.0	26.0	26.0	26.0	24.0	23.5	23.5
19	23.5	23.0	23.0	26.0	25.0	25.0	26.0	26.0	26.0	24.0	23.5	23.5
20	24.0	23.0	23.0	25.5	25.0	25.0	26.5	24.5	26.0	24.0	23.5	23.5
21	24.0	23.5	23.5	25.5	24.5	24.5	26.5	26.0	26.0	24.0	23.5	23.5
22	24.5	23.5	24.0	25.0	24.5	24.5	26.5	26.0	26.0	23.5	23.0	23.0
23	24.0	23.5	23.5	25.0	24.5	24.5	26.5	24.5	26.0	23.0	21.5	22.0
24	23.5	23.0	23.5	24.5	24.0	24.0	27.0	24.5	26.5	21.5	20.5	21.0
25	23.0	23.0	23.0	24.5	24.0	24.0	26.5	24.5	26.5	21.0	20.0	20.5
26	23.0	22.0	22.5	24.5	24.0	24.0	26.5	24.5	26.5	21.0	20.0	20.5
27	23.0	22.0	22.0	24.0	24.0	24.0	26.5	24.5	26.5	21.0	20.5	20.5
28	21.5	21.0	21.5	25.0	24.0	24.0	28.0	26.5	26.5	21.0	21.0	21.0
29	21.5	21.0	21.0	25.5	24.5	24.5	28.0	26.5	27.0	21.0	21.0	21.0
30	23.0	21.0	21.5	25.5	24.5	25.0	28.0	27.0	27.0	21.0	20.5	20.5
31	---	---	---	26.0	25.0	25.5	28.0	26.5	27.0	---	---	---
MONTH	24.5	18.5	21.5	26.5	21.5	24.5	28.0	24.0	26.0	28.0	20.0	23.5

DELAWARE RIVER BASIN

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'10", long 75°16'37", Delaware County, at former gaging station on bridge on State Highway 97 in Hancock and 1.2 mi (1.9 km) upstream from confluence with West Branch.

DRAINAGE AREA.--838 mi^2 (2,170 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.
Biological analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
18...	1645	155	--	7.5	--	1.7	20	0	16	.04	.00
NOV.											
28...	1125	1490	--	5.7	--	1.5	11	0	9	.40	.00
DEC.											
19...	1340	790	--	5.4	--	.9	8	0	7	.53	.00
JAN.											
23...	1315	1440	--	5.2	--	1.0	8	0	7	.44	.00
FEB.											
27...	0925	1650	--	--	--	--	5	0	4	.44	.01
APR.											
03...	1045	2750	--	5.0	--	1.1	8	0	7	.32	.01
24...	1055	1770	4.3	--	1.0	--	10	0	8	.31	.00
MAY											
23...	0900	1200	5.4	--	1.1	--	11	0	9	.23	.01
JUNE											
19...	1710	880	10	--	1.0	--	10	0	8	.14	.01
AUG.											
01...	1230	600	9.4	--	1.0	--	11	0	9	.21	.01
28...	1220	280	6.7	--	1.1	--	14	0	11	.07	.00
SEP.											
19...	0845	400	7.4	--	1.6	--	14	0	11	.04	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
18...	.04	.01	.10	.11	.15	.00	--	.00	38	--	45
NOV.											
28...	.40	.10	.14	.24	.64	.00	--	.00	--	6	54
DEC.											
19...	.53	.02	--	.01	.54	.00	--	.00	--	7	39
JAN.											
23...	.44	.03	.04	.07	.51	.01	--	.00	30	8	16
FEB.											
27...	.45	.03	.04	.07	.52	.01	--	.00	--	0	31
APR.											
03...	.33	.01	.04	.05	.38	.01	--	.01	--	5	20
24...	.31	.05	.05	.10	.41	.01	.00	--	--	5	27
MAY											
23...	.24	.03	.10	.13	.37	.01	.00	--	--	4	47
JUNE											
19...	.15	.17	.02	.19	.34	.01	.00	--	--	2	33
AUG.											
01...	.22	.07	.06	.13	.35	.02	.01	--	--	11	47
28...	.07	.08	.06	.14	.21	.01	.01	--	--	1	46
SEP.											
19...	.04	.04	.06	.10	.14	.00	.01	--	--	1	42

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 18...	26	9	93	6.8	10.0	10.4	93	1.1	5.1	210	E10000
NOV. 28...	28	11	57	7.0	7.0	10.1	84	2.3	1.8	130	E71
DEC. 19...	17	11	58	6.3	.0	13.9	97	3.0	6.4	62	E 2
JAN. 23...	17	11	66	6.0	1.0	11.5	81	2.2	13	270	E15
FEB. 27...	--	--	39	5.9	.0	12.2	85	.4	10	250	22
APR. 03...	17	10	52	6.8	5.0	12.0	95	1.8	2.0	2300	E3
24...	--	--	47	6.5	7.0	13.5	113	--	5.1	1100	E5
MAY 23...	--	--	51	6.8	18.0	8.7	94	1.2	2.8	2600	E27
JUNE 19...	--	--	50	7.7	21.0	9.9	110	.6	.3	1200	--
AUG. 01...	--	--	57	7.1	24.0	9.1	107	.8	1.4	1800	E40
28...	--	--	67	7.5	21.0	9.0	100	1.3	.7	1000	60
SEP. 19...	--	--	66	7.4	16.0	9.2	94	.8	.9	620	100

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT. 18...	1645	1.2	--	2.2	--	.7	9.0	5.5	--	.3
JAN. 23...	1315	2.4	--	3.3	--	.5	7.8	5.7	--	.1
APR. 24...	1055	--	1.3	--	.6	--	8.8	2.4	.2	--
AUG. 01...	1230	2.6	2.0	--	.8	--	10	2.7	.3	--

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

BIOLOGICAL ANALYSES, MAY 1973 TO SEPTEMBER 1974

OCCURRENCE OF PHYTOPLANKTON

Date of sample collection	5-16-73	6-12-73	7-10-73	8-15-73	9-12-73	10-8-73	11-28-73	12-19-73	1-23-74
Total count (cells/ml)	1600	160	200	330	720	210	130	62	270
Phytoplankton taxa	Percent of total								
CHLOROPHYTA									
.Chlorophyceae (green algae)									
....Chlamydomonas	--	--	--	--	--	--	--	--	82
....Scenedesmus	--	--	--	58	54	--	--	--	--
....Sphaerocystis	--	--	--	--	--	16	--	--	--
....Ulothrix	--	--	--	--	--	--	--	--	--
CHRYSOPHYTA									
.Bacillariophyceae (diatoms)									
....Achnanthes	--	--	--	--	--	--	20	--	--
....Asterionella	87	--	--	--	--	--	--	--	--
....Cymbella	--	26	--	--	--	--	17	--	--
....Navicula	--	--	--	--	--	--	--	16	--
....Nitschia	--	--	16	--	--	--	30	--	--
CYANOPHYTA									
.Myxophyceae (blue-green algae)									
....Anacystis	--	--	--	--	--	--	--	--	--

Date of sample collection	2-27-74	4-3-74	4-24-74	5-23-74	6-19-74	8-1-74	8-28-74	9-19-74
Total count (cells/ml)	250	2300	1080	2600	1200	1800	1000	620
Phytoplankton taxa	Percent of total							
CHLOROPHYTA								
.Chlorophyceae (green algae)								
....Chlamydomonas	--	--	--	--	--	--	--	--
....Scenedesmus	--	--	--	--	21	--	26	13
....Sphaerocystis	--	--	--	--	--	--	--	--
....Ulothrix	--	30	--	--	--	--	--	--
CHRYSOPHYTA								
.Bacillariophyceae (diatoms)								
....Achnanthes	16	--	18	--	30	38	55	63
....Asterionella	--	--	16	16	--	--	--	--
....Cymbella	--	--	--	28	18	8	--	6
....Navicula	--	--	--	14	4	6	--	--
....Nitschia	--	--	--	--	--	--	3	6
CYANOPHYTA								
.Myxophyceae (blue-green algae)								
....Anacystis	--	--	--	2	4	--	--	--

PHYLUM
.Class
..Order
...Family
....Genus

01427500 CALLICOON CREEK AT CALLICOON, N.Y.

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, at gaging station, 0.7 mi (1.1 km) southeast of Callicoon, 0.9 mi (1.4 km) upstream from mouth, and 1.0 mi (1.6 km) southwest of Hortonville.

DRAINAGE AREA.--111 mi^2 (287 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
17...	0815	33	--	10	--	2.1	26	0	21	.69	.00	.69
NOV.												
29...	0955	446	--	7.5	--	2.1	15	0	12	.74	.01	.75
DEC.												
19...	1630	173	--	7.8	--	1.5	12	0	10	1.3	.00	1.3
JAN.												
24...	1630	334	--	7.5	--	1.5	11	0	9	.94	.00	.94
FEB.												
27...	1210	158	--	7.0	--	1.3	10	0	8	1.1	.01	1.1
APR.												
04...	1630	520	--	6.7	--	1.4	10	0	8	.74	.01	.75
18...	1640	286	--	6.6	--	1.3	11	0	9	.81	.01	.82
MAY												
23...	1310	130	9.8	--	1.5	--	19	0	16	.70	.01	.71
JUNE												
20...	1045	92	7.6	--	1.4	--	19	0	16	.67	.01	.68
AUG.												
01...	1000	103	9.5	--	1.4	--	17	0	14	.51	.01	.52
15...	1635	28	17	--	1.8	--	22	--	--	.50	.02	.52
SEP.												
19...	1215	55	11	--	1.8	--	22	0	18	.71	.00	.71

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.											
17...	.01	.18	.19	.88	.02	--	.00	48	8	73	34
NOV.											
29...	.12	.21	.33	1.1	.05	--	.02	--	--	86	27
DEC.											
19...	.03	.22	.25	1.5	.03	--	.01	--	20	71	26
JAN.											
24...	.09	.42	.51	1.4	.04	--	.01	41	13	34	25
FEB.											
27...	.11	.20	.31	1.4	.02	--	.01	--	2	53	23
APR.											
04...	.21	.06	.27	1.0	.05	--	.03	--	54	83	22
18...	--	--	--	--	.03	--	.02	34	16	61	22
MAY											
23...	.03	.16	.19	.90	.02	.01	--	--	2	69	--
JUNE											
20...	.07	.28	.35	1.0	.04	.02	--	--	0	78	--
AUG.											
01...	.20	.31	.51	1.0	.04	.01	--	--	14	67	--
15...	.19	.03	.22	.74	.02	.02	--	--	2	67	--
SEP.											
19...	.09	.12	.21	.92	.02	.01	--	--	2	65	--

01427500 CALLICOON CREEK AT CALLICOON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 17...	12	87	7.2	8.0	10.2	91	3.4	2.6	2.8	--	27
NOV. 29...	15	81	7.1	6.0	11.2	91	.7	1.9	1.6	--	E270
DEC. 19...	16	98	6.5	.0	13.5	94	1.4	6.1	1.9	--	E52
JAN. 24...	16	82	6.2	2.0	13.8	99	.6	11	1.8	--	E58
FEB. 27...	15	80	6.1	1.0	13.6	97	1.0	13	3.3	--	14
APR. 04...	14	64	6.0	9.0	11.1	96	.5	16	2.4	--	E13
18...	13	67	7.5	11.0	11.0	99	.0	.6	.0	--	E7
MAY 23...	--	62	7.5	18.0	9.8	103	1.2	1.0	5.0	12	E156
JUNE 20...	--	78	7.5	20.0	9.6	104	.8	1.0	1.3	5.0	136
AUG. 01...	--	76	7.4	18.0	9.8	103	2.4	1.1	16	3.2	120
15...	--	100	9.2	26.0	9.2	110	1.5	.0	.4	1.2	64
SEP. 19...	--	99	7.6	15.0	10.8	106	1.0	.9	5.5	2.0	140

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT. 17...	0815	2.0	--	3.2	--	1.6	10	6.0	--	.3
JAN. 24...	1630	3.2	--	3.7	--	1.4	12	6.1	--	.1
APR. 18...	1640	2.1	--	2.4	--	1.2	11	4.1	--	.1
AUG. 01...	1000	2.6	3.3	--	1.4	--	12	4.6	.2	--

01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.

LOCATION.--Lat 41°36'34", long 75°03'44", Sullivan County, N.Y.-Wayne County, Pa., at bridge on U.S. Highway 106 in Narrowsburg, 0.1 mi (0.2 km) downstream from Feagles Lake Outlet.

DRAINAGE AREA.--1,913 mi² (4,955 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 16...	1600	E1350	--	7.2	--	1.8	18	0	15	.45	.00	.46
NOV. 15...	1005	E1610	--	7.0	--	1.8	19	0	16	.34	.00	.34
DEC. 12...	1540	E5430	--	6.0	--	1.1	8	0	7	.49	.00	.49
JAN. 18...	1000	E1260	--	6.0	--	1.5	11	0	9	.59	.01	.60
FEB. 27...	1410	E4580	--	--	--	--	10	0	8	.59	.01	.60
APR. 04...	1445	E10400	--	5.0	--	1.2	8	0	7	.37	.00	.37
18...	1450	9130	--	5.2	--	1.3	10	0	8	.38	.01	.39
MAY 23...	1440	E2650	5.8	--	1.4	--	12	0	10	.30	.01	.31
JUNE 20...	1140	1140	5.7	--	1.1	--	14	0	11	.18	.01	.19
JULY 31...	1930	E2040	7.9	--	2.0	--	14	0	11	.28	.01	.29
AUG. 15...	1605	E860	22	--	1.9	--	16	--	--	.17	.01	.18
SEP. 19...	1420	E560	9.1	--	1.8	--	17	0	14	.04	.00	.04

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 16...	.00	.15	.15	.61	.00	--	.00	37	0	42	25
NOV. 15...	.12	.03	.15	.49	.00	--	.00	--	6	62	25
DEC. 12...	.11	.08	.19	.68	.01	--	.00	--	6	36	20
JAN. 18...	.01	.12	.13	.73	.02	--	.00	33	13	63	21
FEB. 27...	.02	.11	.13	.73	.01	--	.00	--	2	36	--
APR. 04...	.08	.16	.24	.61	.03	--	.01	--	15	47	17
18...	--	--	--	--	.02	--	.00	28	6	59	16
MAY 23...	.06	.13	.19	.50	.02	.00	--	--	4	59	--
JUNE 20...	.09	.18	.27	.46	.01	.00	--	--	0	48	--
JULY 31...	.09	.13	.22	.51	.02	.01	--	--	9	53	--
AUG. 15...	.18	.06	.24	.42	.01	.01	--	--	1	46	--
SEP. 19...	.08	.13	.21	.25	.02	.01	--	--	2	45	--

01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
16...	11	75	6.9	11.0	10.2	93	2.7	3.6	2.0	--	E7
NOV.											
15...	9	73	6.3	9.0	11.0	96	4.5	15	.5	--	15
DEC.											
12...	13	55	6.9	3.0	12.6	95	1.6	1.6	1.0	--	66
JAN.											
18...	12	68	6.2	.0	--	--	--	11	7.7	--	E9
FEB.											
27...	--	65	6.1	2.0	15.1	110	1.3	13	2.6	--	E1
APR.											
04...	11	52	6.2	9.0	12.0	104	2.0	8.1	7.3	--	39
18...	10	55	7.7	9.0	11.9	102	.0	.3	10	--	E2
MAY											
23...	--	52	7.4	19.0	10.0	108	1.6	.8	.7	9.0	18
JUNE											
20...	--	53	7.5	22.0	9.0	100	1.1	.7	2.1	4.0	E16
JULY											
31...	--	68	7.3	24.0	9.2	108	1.4	1.1	4.0	3.0	E80
AUG.											
15...	--	73	8.5	25.0	9.0	107	1.0	.1	.5	1.0	E16
SEP.											
19...	--	75	7.4	19.0	9.2	100	.8	1.1	2.8	3.0	25

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.										
16...	1600	1.7	--	1.7	--	1.0	9.6	4.5	--	.3
JAN.										
18...	1000	2.7	--	2.6	--	.7	9.2	4.5	--	.2
APR.										
18...	1450	1.8	--	1.6	--	.8	9.2	2.7	--	.1
JULY										
31...	1930	1.9	2.5	--	1.0	--	11	3.7	.3	--

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, at gaging station at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.
Biological analyses: June 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT.												
16...	0800	99	--	12	--	1.7	31	0	25	.15	.00	.15
NOV.												
14...	1705	123	--	10	--	1.5	24	0	20	.27	.00	.28
DEC.												
12...	0610	1330	--	9.0	--	1.1	13	0	11	.40	.00	.40
JAN.												
17...	0745	E320	--	9.0	--	1.2	16	0	13	.51	.05	.56
FEB.												
21...	1545	E260	--	9.4	--	1.0	16	0	13	.56	.01	.57
MAR.												
21...	1315	842	--	7.7	--	1.0	12	0	10	.38	.01	.39
APR.												
18...	0900	1020	--	7.0	--	1.0	14	0	11	.26	.01	.27
MAY												
16...	1145	958	8.5	--	1.0	--	15	0	12	.14	.01	.15
JUNE												
13...	1315	143	11	--	1.3	--	21	--	--	.26	.01	.27
JULY												
18...	1205	82	11	--	1.3	--	26	0	21	.08	.01	.09
AUG.												
14...	1815	77	10	--	1.4	--	28	--	--	.01	.01	.02
SEP.												
10...	1315	224	9.9	--	1.6	--	7	0	6	.13	.00	.13

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.											
16...	.02	.23	.25	.40	.04	--	.03	51	0	57	37
NOV.											
14...	.11	.05	.16	.44	.05	--	.03	--	4	73	31
DEC.											
12...	.14	.04	.18	.58	.04	--	.01	--	7	56	27
JAN.											
17...	.07	.17	.24	.80	.04	--	.02	42	2	65	27
FEB.											
21...	.06	.17	.23	.80	.03	--	.02	--	9	60	28
MAR.											
21...	.23	.04	.27	.66	.07	--	.04	--	17	97	23
APR.											
18...	--	--	--	--	.03	--	.01	33	13	--	22
MAY											
16...	.04	.16	.20	.35	.04	.01	--	--	8	58	--
JUNE											
13...	.05	.24	.29	.56	.06	.05	--	--	0	50	--
JULY											
18...	.22	.04	.26	.35	.06	.05	--	--	2	60	--
AUG.											
14...	.27	.11	.38	.40	.10	.08	--	--	1	74	--
SEP.											
10...	.18	.14	.32	.45	.05	.02	--	--	4	50	--

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 16...	12	102	6.9	12.0	8.4	77	1.5	6.2	6400	--	23
NOV. 14...	11	102	7.0	10.0	11.4	102	3.1	3.8	290	--	10
DEC. 12...	16	70	6.8	2.0	12.7	92	1.3	3.3	270	--	E600
JAN. 17...	14	88	5.9	.0	12.4	86	--	32	190	--	E440
FEB. 21...	14	90	6.5	3.0	12.0	90	2.7	8.1	520	--	84
MAR. 21...	14	62	6.3	3.0	12.8	96	1.6	9.6	860	--	180
APR. 18...	10	60	6.4	9.0	10.8	93	.0	8.9	460	.0	120
MAY 16...	--	58	6.4	18.0	9.4	99	.1	9.6	1900	--	210
JUNE 13...	--	90	8.5	22.0	10.4	118	.2	.1	3100	--	29
JULY 18...	--	98	8.2	23.0	10.1	116	2.0	.3	2500	--	14
AUG. 14...	--	102	9.4	26.0	10.2	124	1.0	.0	3600	--	E 12
SEP. 10...	--	84	7.1	19.0	9.6	103	1.7	.9	4000	--	90

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT. 16...	0800	1.5	--	2.2	--	1.4	11	5.5	--	.4
JAN. 17...	0745	3.7	--	3.0	--	.8	11	5.6	--	.1
APR. 18...	0900	2.1	--	1.5	--	1.0	11	2.7	--	.1
JULY 18...	1205	1.9	3.3	--	1.1	--	12	4.7	.1	--

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

BIOLOGICAL ANALYSES, JUNE 1973 TO SEPTEMBER 1974

OCCURRENCE OF PHYTOPLANKTON

Date of sample collection	6-20-73	7-24-73	8-21-73	11-14-73	12-12-73	1-17-74	2-21-74
Total count (cells/ml)	280	1400	590	290	270	190	520
Phytoplankton taxa				Percent of total			
CHLOROPHYTA							
.Chlorophyceae (green algae)							
....Actinastrum	--	--	--	--	--	--	--
....Ankistrodesmus	--	--	--	--	--	--	--
....Kirchneriella	--	--	--	--	--	--	--
....Scenedesmus	--	40	--	--	--	--	--
CHRYSOPHYTA							
.Bacillariophyceae (diatoms)							
....Achnanthes	--	--	--	--	--	38	--
....Cymbella	30	--	--	--	--	--	--
....Fragilaria	--	--	--	--	--	--	46
....Navicula	--	--	23	16	18	25	--
....Nitschia	--	--	--	15	--	--	--
CYANOPHYTA							
.Myxophyceae (blue-green algae)							
....Agmenellum	--	--	--	--	--	--	--
....Anabaena	--	--	38	--	--	--	--
....Anacystis	--	--	--	--	--	--	--

Date of sample collection	3-21-74	4-18-74	5-16-74	6-13-74	7-18-74	8-14-74	9-10-74
Total count (cells/ml)	860	460	1900	3100	2500	3600	4000
Phytoplankton taxa				Percent of total			
CHLOROPHYTA							
.Chlorophyceae (green algae)							
....Actinastrum	--	--	--	27	--	--	--
....Ankistrodesmus	--	--	2	3	1	2	--
....Kirchneriella	--	--	--	2	1	1	--
....Scenedesmus	--	--	14	14	15	26	5
CHRYSOPHYTA							
.Bacillariophyceae (diatoms)							
....Achnanthes	--	13	3	6	6	2	2
....Cymbella	15	17	14	4	2	--	--
....Fragilaria	33	13	--	--	--	--	--
....Navicula	15	17	26	12	14	6	3
....Nitschia	--	--	5	--	8	2	3
CYANOPHYTA							
.Myxophyceae (blue-green algae)							
....Agmenellum	--	--	--	--	--	19	--
....Anabaena	--	--	--	--	--	15	--
....Anacystis	--	--	3	--	--	3	11

PHYLUM
.Class
..Order
...Family
....Genus

DELAWARE RIVER BASIN

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.

LOCATION.--Lat 41°22'04", long 75°19'10", Pike County, at roadside park 0.9 mi (1.4 km) southeast of Ledgedale and 2.6 mi (4.2 km) downstream from the confluence of East and West Branches.

DRAINAGE AREA.--151 mi^2 (391 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1700	E52	--	9.2	--	1.4	24	0	20	.03	.00	.03
NOV. 14...	1505	E98	--	8.0	--	1.2	18	0	15	.18	.00	.18
DEC. 11...	1600	E796	--	7.0	--	.9	7	0	6	.33	.00	.33
JAN. 17...	0950	E296	--	7.4	--	1.1	11	0	9	.38	.01	.39
FEB. 21...	1315	E229	--	7.7	--	.7	11	0	9	.47	.00	.47
MAR. 21...	1130	E380	--	7.4	--	1.1	11	0	9	.33	.00	.33
APR. 17...	1810	E530	--	6.3	--	.9	10	0	8	.23	.01	.24
MAY 16...	0900	E480	29	--	1.0	--	10	0	8	.15	.01	.16
JUNE 13...	1345	84	21	--	1.3	--	15	0	12	.18	.01	.19
JULY 18...	0950	47	8.6	--	1.0	--	14	0	11	.03	.01	.04
AUG. 15...	0945	49	7.2	--	1.3	--	14	0	11	.00	.01	.01
SEP. 10...	1115	230	10	--	1.2	--	8	0	7	.01	.00	.01

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 15...	.05	.14	.19	.22	.02	--	.00	41	8	59	29
NOV. 14...	.05	.06	.11	.29	.00	--	.00	--	5	61	25
DEC. 11...	.14	.03	.17	.50	.02	--	.00	--	8	49	21
JAN. 17...	.06	.05	.11	.50	.01	--	.00	35	2	55	23
FEB. 21...	.07	.18	.25	.72	.01	--	.01	--	6	58	22
MAR. 21...	.10	.00	.10	.43	.01	--	.01	--	18	54	23
APR. 17...	--	--	--	--	.01	--	.01	30	3	46	19
MAY 16...	.04	.14	.18	.34	.02	.01	--	--	4	45	--
JUNE 13...	.07	.24	.31	.50	.01	.00	--	--	0	47	--
JULY 18...	.15	.15	.30	.34	.01	.01	--	--	2	48	--
AUG. 15...	.14	.11	.25	.26	.01	.01	--	--	2	57	--
SEP. 10...	.16	.23	.39	.40	.02	.01	--	--	1	36	--

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.											
15...	9	85	7.2	15.0	9.4	94	--	2.4	2.1	--	E2
NOV.											
14...	10	74	7.0	7.0	12.0	100	1.7	2.9	.3	--	E2
DEC.											
11...	15	59	6.6	3.0	12.5	94	3.5	2.8	.0	--	E76
JAN.											
17...	14	71	6.2	.0	14.2	98	--	11	2.2	--	10
FEB.											
21...	13	71	6.6	.0	12.5	87	1.2	4.4	3.9	--	13
MAR.											
21...	14	64	6.3	3.0	9.2	92	9.7	8.8	2.3	--	E10
APR.											
17...	11	53	6.3	8.0	11.5	96	.0	8.0	.0	--	E3
MAY											
16...	--	52	6.1	17.0	9.3	96	1.1	13	.4	.5	35
JUNE											
13...	--	72	7.5	20.0	8.8	96	.8	.8	.4	1.4	<1
JULY											
18...	--	73	7.2	24.0	9.0	106	1.6	1.4	6.4	12	140
AUG.											
15...	--	67	7.1	22.0	8.7	99	2.0	1.8	3.2	5.2	E7
SEP.											
10...	--	65	7.1	21.0	9.9	110	2.3	1.0	11	.0	14

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT.										
15...	1700	2.0	--	2.0	--	.8	9.0	4.1	--	.3
JAN.										
17...	0950	3.3	--	2.1	--	.5	11	4.3	--	.0
APR.										
17...	1810	1.9	--	1.5	--	.6	11	3.1	--	.1
JULY										
18...	0950	1.4	2.4	--	.7	--	11	4.0	.1	--

DELAWARE RIVER BASIN

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.

LOCATION.--Lat 41°29'12", long 74°59'31", Pike County, at highway bridge in Lackawaxen, 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--597 mi^2 (1,550 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 16...	1200	151	--	9.0	--	1.5	23	0	19	.07	.00	.07
NOV. 15...	0800	206	--	8.0	--	1.4	19	0	16	.11	.00	.12
DEC. 12...	1205	1540	--	7.5	--	1.1	11	0	9	.29	.00	.29
JAN. 24...	1245	3420	--	7.0	--	1.0	10	0	8	.26	.00	.26
FEB. 21...	1710	2010	--	6.6	--	1.0	10	0	8	.27	.00	.27
MAR. 21...	1510	3270	--	6.0	--	.9	11	0	9	.24	.00	.24
APR. 18...	1100	3500	--	6.1	--	1.0	11	0	9	.18	.00	.18
MAY 16...	1345	1200	12	--	1.1	--	12	0	10	.13	.01	.14
JUNE 13...	1710	270	8.7	--	1.2	--	15	--	--	.12	.00	.12
JULY 18...	1440	200	7.4	--	1.3	--	20	0	16	.05	.01	.06
AUG. 15...	1230	190	7.9	--	1.1	--	12	0	10	.06	.01	.07
SEP. 10...	1430	2100	7.5	--	1.3	--	17	0	14	.05	.00	.05

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 16...	.01	.16	.17	.24	.01	--	.00	41	0	55	29
NOV. 15...	.08	.11	.19	.31	.01	--	.01	--	6	66	26
DEC. 12...	.12	.00	.12	.41	.03	--	.01	--	7	53	23
JAN. 24...	.07	.46	.53	.79	.02	--	.00	33	13	28	22
FEB. 21...	.07	.09	.16	.43	.01	--	.00	--	4	46	21
MAR. 21...	.10	.10	.20	.44	.02	--	.01	--	7	45	19
APR. 18...	--	--	--	--	.02	--	.01	31	14	62	19
MAY 16...	.04	.11	.15	.29	.04	.01	--	--	4	51	--
JUNE 13...	.04	.25	.29	.41	.03	.02	--	--	1	50	--
JULY 18...	.14	.09	.23	.29	.02	.02	--	--	2	52	--
AUG. 15...	.15	.07	.22	.29	.02	.01	--	--	1	47	--
SEP. 10...	.17	.13	.30	.35	.03	.01	--	--	3	33	--

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
16...	10	79	7.1	12.0	9.8	91	2.8	2.9	4.1	--	E4
NOV.											
15...	10	76	7.1	6.0	11.1	95	5.1	2.4	.9	--	E3
DEC.											
12...	14	62	6.8	3.0	12.7	96	2.5	2.8	1.1	--	E190
JAN.											
24...	13	64	6.8	1.0	14.1	99	.7	2.5	5.7	--	E82
FEB.											
21...	12	60	6.9	1.0	12.4	95	2.9	2.0	4.3	--	<1
MAR.											
21...	10	57	6.7	3.0	11.8	89	2.4	3.5	5.7	--	E40
APR.											
18...	10	56	6.4	9.0	12.0	103	.0	7.0	.8	--	65
MAY											
16...	--	54	6.4	16.0	10.3	106	1.1	7.6	3.0	5.0	48
JUNE											
13...	--	86	8.6	23.0	9.1	86	.9	.1	1.4	3.0	E19
JULY											
18...	--	86	7.4	24.0	8.3	95	.7	1.3	3.2	4.0	20
AUG.											
15...	--	66	7.0	22.0	9.4	107	.8	1.9	2.0	1.2	E7
SEP.											
10...	--	65	7.4	20.0	8.5	92	1.5	1.1	3.6	.8	E8

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.										
16...	1200	1.4	--	2.0	--	1.0	9.5	4.5	--	.5
JAN.										
24...	1245	2.8	--	2.3	--	.9	10	3.9	--	.0
APR.										
18...	1100	2.2	--	1.6	--	.8	11	3.1	--	.1
JULY										
18...	1440	2.3	3.0	--	.9	--	11	4.2	.1	--

DELAWARE RIVER BASIN

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft (305 m) upstream of Shohola Brook.

DRAINAGE AREA.--2,692 mi^2 (6,972 km^2).

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958, May 1973 to September 1974.
Water temperatures: October 1967 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 16...	1410	E1820	--	7.2	--	1.8	18	0	15	.39	.00	.39
NOV. 15...	1345	E2080	--	7.0	--	1.7	19	0	16	.28	.00	.28
DEC. 12...	1405	E7760	--	6.5	--	1.1	9	0	7	.39	.00	.39
JAN. 17...	1530	E4280	--	6.1	--	1.2	11	0	9	.36	.01	.37
FEB. 20...	1415	E3820	--	6.2	--	1.2	10	0	8	.38	.00	.38
MAR. 21...	1600	E7300	--	6.0	--	1.1	10	0	8	.28	.00	.28
APR. 18...	1300	E11800	--	5.9	--	1.2	10	0	8	.28	.01	.29
MAY 16...	1535	E8670	5.9	--	1.2	--	11	0	9	.25	.01	.26
JUNE 12...	0830	1360	10	--	1.7	--	13	0	11	.14	.01	.15
JULY 18...	1550	E1430	6.1	--	1.6	--	15	0	12	.26	.01	.27
AUG. 15...	1200	1200	7.8	--	1.6	--	17	0	14	.13	.01	.14
SEP. 10...	1530	E3030	13	--	1.8	--	16	0	13	.10	.00	.10

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 16...	.02	.12	.14	.53	.00	--	.00	37	20	50	25
NOV. 15...	.08	.08	.16	.44	.00	--	.00	--	4	62	24
DEC. 12...	.13	.07	.20	.59	.02	--	.00	--	6	40	21
JAN. 17...	.04	.05	.09	.46	.02	--	.00	33	0	50	20
FEB. 20...	.03	.18	.21	.59	.01	--	.00	--	0	41	20
MAR. 21...	.08	.14	.22	.50	.02	--	.00	--	8	30	20
APR. 18...	--	--	--	--	.02	--	.01	29	12	42	20
MAY 16...	.04	.09	.13	.39	.03	.01	--	--	7	45	--
JUNE 12...	.04	.18	.22	.37	.01	.01	--	--	0	37	--
JULY 18...	.16	.08	.24	.51	.01	.01	--	--	1	56	--
AUG. 15...	.15	.09	.24	.38	.01	.01	--	--	1	62	--
SEP. 10...	.11	.00	.11	.21	.02	.01	--	--	1	39	--

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 16...	11	77	6.9	12.0	10.4	97	2.3	3.6	1.3	--	E4
NOV. 15...	9	72	6.9	10.0	11.9	106	1.6	3.8	.3	--	E2
DEC. 12...	13	64	6.5	3.0	12.5	94	1.4	4.6	1.5	--	E120
JAN. 17...	11	73	6.5	.0	14.0	97	--	5.6	2.3	--	13
FEB. 20...	12	57	6.8	2.0	14.1	103	2.1	2.5	2.0	--	E6
MAR. 21...	11	58	7.1	3.0	13.9	104	1.8	1.3	5.2	--	E31
APR. 18...	11	55	6.2	8.0	11.4	96	2.4	10	.0	--	22
MAY 16...	--	52	6.5	17.0	10.0	101	.0	5.6	.1	3.6	30
JUNE 12...	--	66	7.1	19.0	9.4	99	2.5	1.7	.5	1.2	22
JULY 18...	--	76	7.7	26.0	9.2	112	.4	.5	.8	1.2	11
AUG. 15...	--	72	7.4	25.0	8.8	103	.8	1.1	.0	-1.2	E13
SEP. 10...	--	63	7.4	20.0	9.4	102	1.3	1.0	2.4	.0	12

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT. 16...	1410	1.5	--	2.0	--	1.0	9.5	4.4	--	.3
JAN. 17...	1530	2.6	--	2.4	--	.7	10	4.3	--	.1
APR. 18...	1300	1.9	--	1.6	--	.8	9.8	3.0	--	.1
JULY 18...	1550	1.8	2.9	--	.8	--	10	3.9	.1	--

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, at gaging station 300 ft (91 m) downstream from Rio hydroelectric plant of Orange and Rockland Utilities, Inc., 0.5 mi (0.8 km) downstream from Bush Kill, and 2.8 mi (4.5 km) upstream from mouth and Mongaup.

DRAINAGE AREA.--202 mi^2 (523 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 18...	1400	29	--	5.3	--	1.3	12	0	10	.22	.00	.22
NOV. 16...	0900	29	--	5.0	--	1.2	11	0	9	.17	.00	.17
DEC. 13...	0805	727	--	5.5	--	1.2	8	0	7	.18	.00	.19
JAN. 16...	1100	664	--	4.5	--	1.1	6	0	5	.41	.01	.42
FEB. 20...	1315	724	--	5.0	--	1.3	5	0	4	.50	.01	.51
MAR. 20...	1120	395	--	5.0	--	1.2	8	0	7	.43	.00	.43
APR. 17...	0855	724	--	4.9	--	1.1	7	0	6	.38	.01	.39
MAY 15...	1040	736	11	--	1.2	--	7	0	6	.31	.01	.32
JUNE 12...	1740	716	5.8	--	1.1	--	7	0	6	.24	.01	.25
JULY 17...	1245	28	5.7	--	1.1	--	10	0	8	.26	.01	.27
AUG. 14...	1210	716	4.3	--	1.2	--	10	0	8	.23	.01	.24
SEP. 11...	0815	728	5.5	--	1.7	--	6	0	5	.19	.01	.20

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 18...	.02	.25	.27	.49	.02	--	.00	31	8	40	19
NOV. 16...	.12	.07	.19	.36	.01	--	.00	--	3	56	17
DEC. 13...	.18	.07	.25	.44	.01	--	.00	--	0	39	19
JAN. 16...	.12	.10	.22	.64	.04	--	.01	32	1	53	16
FEB. 20...	.14	.25	.39	.90	.02	--	.01	--	5	38	14
MAR. 20...	.22	.05	.27	.70	.02	--	.01	--	4	43	17
APR. 17...	--	--	--	--	.02	--	.01	35	4	47	17
MAY 15...	.07	.12	.19	.51	.02	.00	--	--	1	46	--
JUNE 12...	.10	.24	.34	.59	.02	.01	--	--	2	47	--
JULY 17...	.12	.04	.16	.43	.02	.01	--	--	2	49	--
AUG. 14...	.18	.07	.25	.49	.02	.01	--	--	1	60	--
SEP. 11...	.26	.06	.32	.52	.04	.01	--	--	2	36	--

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 18...	9	61	6.5	15.0	9.5	95	.0	6.1	9.5	--	E4
NOV. 16...	8	61	6.6	10.0	9.8	92	1.9	4.4	.8	--	<1
DEC. 13...	12	62	6.4	5.0	10.6	84	2.6	5.1	2.5	--	E5
JAN. 16...	11	69	6.2	2.0	13.1	96	1.8	6.1	2.2	--	<1
FEB. 20...	14	73	6.6	2.0	12.9	94	2.3	2.0	3.1	--	<1
MAR. 20...	11	68	7.3	3.0	12.4	93	1.2	.6	4.0	--	<1
APR. 17...	11	66	6.1	6.0	12.7	103	2.0	8.9	1.7	--	<1
MAY 15...	--	66	6.1	12.0	10.3	95	1.8	8.9	5.0	12	E5
JUNE 12...	--	65	7.2	16.0	8.1	82	1.2	.7	2.4	2.3	E3
JULY 17...	--	75	6.9	19.0	8.6	93	3.0	2.0	1.5	2.5	5
AUG. 14...	--	66	6.9	21.0	5.0	56	--	2.0	.0	1.0	2
SEP. 11...	--	66	7.2	19.0	7.0	75	1.3	.6	6.0	.4	4

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT. 18...	1400	1.4	--	2.0	--	1.0	9.1	4.5	--	.4
JAN. 16...	1100	2.5	--	3.9	--	1.0	10	6.4	--	.1
APR. 17...	0855	2.6	--	4.2	--	1.0	10	7.5	--	.0
JULY 17...	1245	1.9	4.0	--	.8	--	11	5.9	.1	--

DELAWARE RIVER BASIN

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)

LOCATION.--Lat 41°02'40", long 75°01'42", Monroe County, water-quality recorder on right bank opposite Poxono Island, 0.1 mi (0.2 km) upstream from mouth of Vancampens Brook, and 4.4 mi (7.0 km) northeast of East Stroudsburg.

DRAINAGE AREA.--3,830 mi^2 (9,920 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to May 1973, October 1973 to September 1974.
Water temperatures: October 1966 to May 1973, October 1973 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 99 micromhos Aug. 16; minimum, 54 micromhos Dec. 22.
Dissolved oxygen: Maximum, 18.3 mg/l Mar. 30; minimum, 6.0 mg/l Aug. 24.
pH: Maximum, 8.7 Oct. 22; minimum, 6.0 Dec. 21-23.
Water temperatures: Maximum, 25.0°C Aug. 15; minimum, 0.5°C on many days during December to February.

Period of record:
Specific conductance: Maximum, 150 micromhos Mar. 21, 1969; minimum, 44 micromhos Dec. 9, 1969 and Jan. 6, 1970.
Dissolved oxygen: Maximum, 18.4 mg/l Feb. 28, 1973; minimum, 6.0 mg/l Sept. 22, 1967, Aug. 15, 1971, and Aug. 24, 1974.
pH (1972-74): Maximum, 8.7 Oct. 22, 1973; minimum, 6.0 Dec. 21-23, 1973.
Water temperatures: Maximum, 29.0°C July 17, 18, 1968; minimum, freezing point on many days during winter period.

REMARKS.--No records available for period May to October 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
JAN.										
30...	1240	23500	.50	--	--	.50	.13	.27	.40	.90
FEB.										
13...	1320	6320	.50	--	--	.50	.10	.29	.39	.89
20...	1215	6480	.50	--	--	.50	.10	.93	1.0	1.5
MAR.										
06...	1445	11800	.41	.01	--	.42	.06	--	.01	.43
27...	1245	12200	.20	--	--	.20	.19	.24	.43	.63
APR.										
10...	1455	20600	.33	--	.00	.33	.08	.03	.11	.44
24...	1530	--	--	--	--	.30	.08	.11	.19	.49
30...	1350	4320	--	--	--	.25	.11	.14	.25	.50
MAY										
15...	1330	17600	--	--	--	.28	.18	.51	.69	.97
29...	1415	3830	--	--	--	.24	.03	.12	.15	.39
JUNE										
05...	1500	6240	--	--	--	.20	.01	.10	.11	.31
19...	1200	6860	--	--	--	.27	.06	.37	.43	.70
JULY										
02...	1700	2720	--	--	--	.11	.10	.14	.24	35
08...	1400	2720	--	--	--	.06	.11	.27	.38	.44
23...	1530	2090	--	--	--	.13	.13	.17	.30	.43
AUG.										
06...	1430	3620	--	--	--	.16	.22	.14	.36	.52
14...	1445	1930	--	--	--	.02	.19	.08	.27	.29
28...	1320	2120	--	--	--	.23	.12	.07	.19	.42
SEP.										
11...	1430	5930	--	--	--	.13	.11	.04	.15	.28
18...	1240	3110	--	--	--	.06	.09	.07	.16	.22

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SUS-PENDED SOLIDS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
JAN.									
30...	.06	.01	33	--	20	70	6.6	2.5	7
FEB.									
13...	.01	--	27	--	5	85	7.1	1.0	2
20...	.02	--	45	--	3	85	--	3.0	2
MAR.									
06...	.71	--	42	32	16	58	6.8	5.5	3
27...	.02	--	41	--	--	55	6.4	4.5	--
APR.									
10...	.01	--	36	--	--	80	6.6	11.5	3
24...	.02	--	32	--	--	64	7.3	11.5	2
30...	.01	--	47	--	--	67	--	--	2
MAY									
15...	.04	--	57	--	--	60	7.0	14.5	6
29...	.02	--	48	--	3	90	7.7	16.0	3
JUNE									
05...	.03	--	38	--	--	78	7.1	20.0	3
19...	.05	--	48	--	--	80	--	21.0	4
JULY									
02...	.03	--	51	--	--	95	--	23.0	2
08...	.03	--	49	--	--	85	--	26.5	2
23...	.05	--	43	--	--	85	7.8	23.5	2
AUG.									
06...	.04	--	59	--	--	85	7.3	23.3	2
14...	.03	--	73	--	--	95	8.5	24.5	2
28...	.02	--	74	--	--	85	7.4	23.5	1
SEP.									
11...	.03	--	46	--	--	79	6.4	19.0	3
18...	.01	--	49	--	--	90	--	19.0	1

DATE	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.									
30...	13.7	36	--	.8	.3	--	200	180	4.0
FEB.									
13...	14.5	16	--	--	.2	--	--	300	.0
20...	14.5	240	--	--	.3	--	50	1000	1.0
MAR.									
06...	12.7	7	--	--	1.7	--	--	--	1.5
27...	13.6	56	--	.6	1.4	--	0	7	4.0
APR.									
10...	12.3	--	14	1.4	1.3	--	E6	--	3.0
24...	10.6	8	--	1.5	.7	1.3	13	--	6.0
30...	--	10	--	--	1.8	4.2	--	--	8.0
MAY									
15...	10.2	25	--	1.0	21	4.7	76	13	4.0
29...	9.0	6	--	1.0	1.0	1.0	8	16	2.4
JUNE									
05...	9.0	9	--	.8	1.5	3.1	22	14	3.2
19...	8.4	11	--	1.6	2.0	20	--	100	3.4
JULY									
02...	8.2	3	--	1.0	4.0	8.0	E42	--	2.2
08...	7.4	10	--	1.2	2.1	5.3	E820	--	7.0
23...	8.9	9	--	1.2	16	1.0	--	--	1.9
AUG.									
06...	8.2	10	--	.2	--	--	--	--	3.7
14...	8.6	9	--	1.8	--	--	210	1200	2.5
28...	8.0	6	--	1.0	1.3	.3	E60	E13	--
SEP.									
11...	8.8	10	--	5.0	--	--	--	--	5.1
18...	9.3	8	--	1.2	2.0	1.0	570	E64	3.9

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR. 06...	1445	--	5.9	--	1.3	--	2.3	--	1.0	12
JUNE 05...	1500	6.4	--	1.2	--	2.5	--	.6	--	16

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAR. 06...	0	10	11	4.3	.1	--	20	10	2.7
JUNE 05...	0	13	8.5	3.4	--	5	--	--	2.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	89	70	80	75	72	74	75	73	74
2	---	---	---	77	70	73	72	70	71	76	74	75
3	---	---	---	80	72	77	71	69	70	78	75	77
4	---	---	---	81	77	79	72	70	71	80	78	79
5	---	---	---	83	72	78	72	70	71	84	79	81
6	---	---	---	86	71	81	71	68	70	85	80	82
7	---	---	---	86	78	82	72	67	69	84	82	83
8	---	---	---	85	81	83	70	64	67	84	84	84
9	---	---	---	85	81	82	64	62	63	86	84	85
10	---	---	---	81	80	81	64	60	62	88	85	86
11	---	---	---	81	80	80	61	58	59	85	82	84
12	---	---	---	81	80	81	59	57	58	84	83	84
13	---	---	---	81	70	78	61	58	60	93	84	86
14	---	---	---	77	70	74	63	60	62	91	87	89
15	---	---	---	77	70	73	63	61	62	91	85	89
16	---	---	---	76	69	73	64	62	63	85	81	83
17	---	---	---	75	69	72	63	62	62	93	81	87
18	---	---	---	76	68	72	65	62	64	93	89	91
19	87	87	---	79	69	74	68	65	67	94	90	92
20	87	84	86	77	71	74	69	67	68	94	91	92
21	86	84	85	76	71	74	67	58	63	93	89	91
22	86	85	86	82	75	77	59	54	56	92	87	90
23	86	79	85	86	71	77	64	57	61	89	85	87
24	86	82	84	78	72	75	67	64	66	87	85	86
25	83	82	83	82	71	78	70	67	69	86	84	85
26	83	82	83	88	76	81	72	70	71	83	82	83
27	85	83	84	87	77	80	74	71	72	84	81	83
28	85	85	85	81	79	80	71	63	67	82	77	79
29	85	80	84	80	75	77	66	63	65	76	72	74
30	84	75	79	76	74	75	72	65	68	73	71	72
31	87	68	77	---	---	---	72	67	69	73	71	72
MONTH	---	---	---	89	68	77	75	54	66	94	71	83

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	74	72	73	82	80	81	82	80	81	93	90	92
2	75	73	74	83	81	82	82	80	81	91	86	88
3	77	75	75	82	81	82	82	77	79	90	86	88
4	78	76	77	85	82	83	80	75	78	89	88	88
5	81	78	79	85	83	84	75	72	73	87	85	86
6	87	82	84	85	80	82	72	69	70	87	85	86
7	90	82	85	81	74	78	74	69	72	87	85	86
8	87	82	84	75	73	74	77	74	75	85	80	82
9	87	84	85	75	73	74	78	76	77	82	79	81
10	86	85	85	77	74	75	78	71	75	82	79	81
11	86	85	85	77	75	76	75	71	73	80	78	79
12	87	85	86	80	77	79	77	74	75	81	79	80
13	87	85	86	80	77	79	78	76	77	79	67	74
14	87	85	86	80	78	79	76	74	75	65	61	64
15	86	85	85	80	80	80	75	70	73	67	62	64
16	87	86	87	83	80	81	72	69	71	72	67	69
17	89	87	88	82	77	80	72	68	69	75	72	74
18	90	88	89	80	77	79	74	69	71	79	74	77
19	91	89	90	80	77	78	76	73	75	80	78	79
20	91	88	90	79	77	78	77	75	76	84	79	81
21	90	86	88	81	78	80	79	77	78	83	80	82
22	89	86	88	80	76	79	82	78	80	83	81	82
23	86	77	81	79	76	77	84	81	82	84	82	83
24	79	75	76	80	77	79	84	81	83	87	83	85
25	75	72	73	78	76	77	84	82	83	87	84	86
26	76	73	75	79	76	77	86	83	84	89	86	88
27	79	75	77	79	76	78	87	85	86	90	88	89
28	81	78	79	80	77	78	89	86	87	91	90	91
29	---	---	---	79	78	79	91	88	89	93	90	91
30	---	---	---	80	77	78	92	90	91	92	90	91
31	---	---	---	82	79	81	---	---	---	91	89	90
MONTH	91	72	83	85	73	79	92	68	78	93	61	82

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	91	89	90	---	---	---	---	---	---	82	67	74
2	---	---	---	---	---	---	---	---	---	74	68	70
3	---	---	---	---	---	---	---	---	---	74	65	68
4	---	---	---	---	---	---	---	---	---	69	66	68
5	---	---	---	---	---	---	---	---	---	70	68	69
6	---	---	---	---	---	---	---	---	---	70	64	67
7	---	---	---	---	---	---	---	---	---	69	66	67
8	---	---	---	---	---	---	---	---	---	69	67	68
9	---	---	---	---	---	---	---	---	---	70	68	69
10	---	---	---	---	---	---	---	---	---	72	70	70
11	---	---	---	---	---	---	---	---	---	72	57	66
12	---	---	---	---	---	---	---	---	---	62	56	59
13	---	---	---	---	---	---	---	---	---	64	56	60
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	99	95	---	---	---	---
17	---	---	---	---	---	---	95	90	93	---	---	---
18	---	---	---	---	---	---	92	86	89	---	---	---
19	---	---	---	---	---	---	85	77	83	---	---	---
20	---	---	---	---	---	---	76	73	75	---	---	---
21	---	---	---	---	---	---	78	75	76	---	---	---
22	---	---	---	---	---	---	79	77	78	---	---	---
23	---	---	---	---	---	---	80	78	79	---	---	---
24	---	---	---	---	---	---	81	79	81	---	---	---
25	---	---	---	---	---	---	83	81	82	---	---	---
26	---	---	---	---	---	---	85	82	83	---	---	---
27	---	---	---	---	---	---	89	84	86	---	---	---
28	---	---	---	---	---	---	89	83	86	---	---	---
29	---	---	---	---	---	---	85	76	84	---	---	---
30	---	---	---	---	---	---	81	78	79	---	---	---
31	---	---	---	---	---	---	81	77	78			
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.4	11.8	12.1	13.5	13.1	---	9.9	9.4	9.7
2	---	---	---	12.8	12.2	12.5	---	---	---	11.0	9.6	10.4
3	---	---	---	13.1	12.2	12.7	---	---	---	11.6	10.7	11.2
4	10.9	10.4	---	---	---	---	---	---	---	12.4	11.4	11.7
5	11.3	10.3	10.9	---	---	---	14.0	12.4	---	14.1	11.7	13.2
6	11.9	11.2	11.5	---	---	---	12.3	11.8	12.0	13.9	12.6	13.2
7	12.6	11.6	12.0	---	---	---	12.5	11.9	12.1	12.7	11.6	12.1
8	12.4	11.3	11.9	---	---	---	14.0	12.3	13.2	14.3	12.2	13.4
9	11.9	10.5	11.1	13.3	13.2	---	14.9	14.1	14.6	14.7	13.6	14.1
10	11.1	10.5	10.8	14.7	13.3	14.0	14.6	10.7	13.3	14.6	13.5	---
11	11.2	10.6	---	15.9	15.0	15.4	11.0	10.1	10.4	---	---	---
12	---	---	---	16.4	15.4	16.1	11.4	10.3	10.8	---	---	---
13	---	---	---	16.0	13.0	14.7	12.6	11.2	12.0	---	---	---
14	---	---	---	12.9	11.0	12.0	12.4	10.8	11.7	---	---	---
15	---	---	---	11.0	9.6	10.6	12.1	11.1	11.5	---	---	---
16	---	---	---	9.8	9.4	9.6	12.8	11.8	---	---	---	---
17	---	---	---	11.0	9.7	10.4	---	---	---	---	---	---
18	---	---	---	12.5	10.9	11.9	---	---	---	---	---	---
19	12.5	12.1	---	13.0	12.3	12.6	---	---	---	---	---	---
20	12.4	11.6	12.0	13.3	12.6	13.0	---	---	---	---	---	---
21	12.8	11.8	12.2	14.3	13.1	13.7	16.5	14.5	---	---	---	---
22	12.6	12.0	12.3	13.8	13.0	13.5	16.3	13.9	15.3	---	---	---
23	12.7	12.0	12.3	13.5	12.9	13.3	14.1	12.4	13.4	---	---	---
24	12.3	11.5	12.0	13.1	12.1	12.7	13.5	12.5	13.0	---	---	---
25	12.1	11.1	11.6	12.2	11.3	11.9	15.1	13.2	14.6	---	---	---
26	12.1	10.7	11.3	12.2	11.3	11.7	14.7	11.7	13.2	---	---	---
27	12.1	10.6	11.4	12.2	11.6	11.9	11.3	10.1	10.7	---	---	---
28	13.0	11.4	12.0	11.9	11.2	11.6	10.3	8.8	9.6	---	---	---
29	12.9	11.6	12.1	12.0	11.2	11.5	9.6	9.0	9.2	---	---	---
30	12.6	11.7	12.1	13.2	12.0	12.6	9.1	8.3	8.8	---	---	---
31	12.6	12.0	12.2	---	---	---	9.8	9.0	9.4	---	---	---
MONTH	---	---	---	16.4	9.4	12.6	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	14.7	12.7	13.7	9.8	8.9	9.3
2	---	---	---	---	---	---	12.8	11.3	12.0	9.1	8.3	8.7
3	---	---	---	---	---	---	11.8	10.6	11.2	9.9	7.6	9.1
4	---	---	---	---	---	---	10.6	8.6	9.5	10.5	9.8	10.2
5	---	---	---	---	---	---	8.6	8.2	8.3	10.9	10.2	10.6
6	14.6	14.2	---	12.7	12.4	---	9.5	8.4	8.7	10.6	10.1	10.3
7	14.4	13.6	14.1	12.5	10.8	11.9	10.6	9.6	10.3	10.9	10.1	10.6
8	14.5	14.1	14.3	12.1	11.5	11.9	10.8	10.5	10.6	10.9	10.2	10.6
9	14.6	14.0	14.3	12.8	11.9	12.5	11.5	10.9	11.2	10.3	9.9	10.1
10	14.6	14.0	14.3	13.4	12.3	12.9	12.7	11.7	12.2	9.9	9.6	9.8
11	14.6	14.1	14.4	13.6	12.6	13.1	13.4	11.8	12.5	10.2	9.8	10.0
12	14.5	13.9	14.2	13.3	11.9	12.7	12.0	10.9	11.4	9.9	9.4	9.6
13	14.5	13.7	---	14.2	12.2	13.4	11.0	10.2	10.6	10.1	9.5	9.7
14	---	---	---	16.0	14.4	15.1	10.7	10.3	10.5	10.7	10.2	10.5
15	---	---	---	15.9	13.8	14.8	10.4	10.0	10.2	10.6	9.8	10.2
16	---	---	---	13.9	12.8	13.3	11.1	10.2	10.6	9.8	9.1	9.5
17	---	---	---	13.0	12.2	12.6	11.9	11.3	11.6	9.1	8.7	8.9
18	---	---	---	14.0	12.3	13.1	11.7	10.8	11.3	8.9	8.7	8.8
19	---	---	---	13.5	12.0	13.0	11.1	10.7	10.9	8.9	8.6	8.7
20	---	---	---	12.7	11.4	12.1	11.6	11.0	11.3	9.0	8.6	8.8
21	---	---	---	12.1	11.7	11.9	11.4	10.5	11.0	9.5	8.6	9.1
22	---	---	---	13.4	12.3	12.8	10.6	9.9	10.3	9.3	8.8	9.0
23	---	---	---	13.7	12.0	12.8	10.0	9.7	9.8	8.8	8.1	8.4
24	---	---	---	12.1	10.7	11.3	10.6	9.8	10.1	8.6	7.8	8.3
25	---	---	---	12.3	11.1	11.8	11.5	10.7	11.2	8.7	8.0	8.3
26	---	---	---	13.5	12.6	13.0	11.8	11.5	11.6	9.0	8.4	8.7
27	---	---	---	13.8	12.5	13.2	11.9	11.3	11.7	9.4	8.7	9.0
28	---	---	---	12.8	11.5	12.2	11.5	10.7	11.3	9.6	9.0	9.3
29	---	---	---	15.4	11.6	12.9	10.8	9.9	10.4	9.2	8.6	8.9
30	---	---	---	18.3	15.5	17.5	10.0	9.3	9.8	9.3	8.8	9.0
31	---	---	---	17.7	14.7	16.4	---	---	---	9.0	8.5	8.8
MONTH	---	---	---	18.3	10.7	13.1	14.7	8.2	10.9	10.9	7.6	9.4

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	8.4	8.7	---	---	---	---	---	---	8.0	7.3	7.6
2	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
3	---	---	---	---	---	---	---	---	---	7.8	7.2	7.6
4	---	---	---	---	---	---	---	---	---	8.4	7.9	8.1
5	---	---	---	---	---	---	---	---	---	8.8	8.4	8.6
6	---	---	---	---	---	---	---	---	---	9.1	8.7	9.0
7	---	---	---	---	---	---	---	---	---	9.1	9.0	9.0
8	---	---	---	---	---	---	---	---	---	9.0	8.7	8.9
9	---	---	---	---	---	---	---	---	---	8.7	8.5	8.6
10	---	---	---	---	---	---	---	---	---	8.6	8.4	8.5
11	---	---	---	---	---	---	---	---	---	9.0	8.2	8.5
12	---	---	---	---	---	---	---	---	---	8.8	8.0	8.4
13	---	---	---	---	---	---	---	---	---	8.7	7.8	8.1
14	---	---	---	---	---	---	8.5	8.1	---	---	---	---
15	---	---	---	---	---	---	9.1	7.8	8.4	---	---	---
16	---	---	---	---	---	---	8.9	7.8	8.3	---	---	---
17	---	---	---	---	---	---	8.4	7.7	7.9	---	---	---
18	---	---	---	---	---	---	8.4	7.6	8.0	---	---	---
19	---	---	---	---	---	---	8.2	7.5	7.8	---	---	---
20	---	---	---	---	---	---	8.0	7.1	7.5	---	---	---
21	---	---	---	---	---	---	7.8	6.8	7.3	---	---	---
22	---	---	---	---	---	---	7.0	6.5	6.7	---	---	---
23	---	---	---	---	---	---	7.0	6.2	6.5	---	---	---
24	---	---	---	---	---	---	6.9	6.0	6.5	---	---	---
25	---	---	---	---	---	---	7.6	6.3	7.0	---	---	---
26	---	---	---	---	---	---	7.5	6.9	7.2	---	---	---
27	---	---	---	---	---	---	8.0	7.1	7.5	---	---	---
28	---	---	---	---	---	---	8.3	7.4	7.7	---	---	---
29	---	---	---	---	---	---	8.2	7.3	7.7	---	---	---
30	---	---	---	---	---	---	7.8	7.3	7.5	---	---	---
31	---	---	---	---	---	---	7.7	7.3	7.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.9	7.1	6.9	6.8	6.9	6.4	6.4	6.4
2	---	---	---	7.2	6.9	7.0	7.0	6.8	6.9	6.5	6.4	6.4
3	---	---	---	7.3	7.0	7.1	7.0	6.8	6.9	6.5	6.5	6.5
4	7.8	6.6	---	7.4	7.1	7.2	7.1	6.8	6.9	6.6	6.5	6.5
5	7.8	6.5	7.1	7.5	7.1	7.3	7.3	6.8	7.1	6.7	6.5	6.6
6	7.6	6.9	7.2	7.6	7.1	7.3	7.3	7.1	7.2	6.6	6.6	6.6
7	7.9	6.8	7.2	7.9	7.2	7.4	7.2	7.1	7.1	6.6	6.6	6.6
8	8.3	6.8	7.5	7.8	7.2	7.4	7.1	7.1	7.1	6.7	6.6	6.7
9	7.9	6.8	7.3	7.8	7.3	7.5	7.1	7.0	7.1	6.7	6.6	6.7
10	8.0	7.0	7.3	7.8	7.3	7.5	7.1	6.9	7.0	6.8	6.6	6.7
11	7.4	7.0	---	8.2	7.3	7.6	6.9	6.9	6.9	6.6	6.6	6.6
12	---	---	---	7.8	7.2	7.5	7.0	6.9	7.0	6.6	6.6	6.6
13	---	---	---	7.6	7.1	7.4	7.0	7.0	7.0	6.8	6.6	6.7
14	---	---	---	7.6	7.1	7.3	7.0	6.9	7.0	6.7	6.6	6.7
15	---	---	---	7.8	7.1	7.3	6.9	6.8	6.9	6.7	6.6	6.7
16	---	---	---	7.4	7.1	7.2	6.9	6.8	6.9	6.7	6.6	6.7
17	---	---	---	7.9	7.1	7.3	6.8	6.7	6.8	6.8	6.7	6.7
18	---	---	---	7.8	7.2	7.4	6.7	6.6	6.7	6.8	6.7	6.7
19	8.2	7.5	---	7.9	7.2	7.4	6.6	6.5	6.6	6.7	6.7	6.7
20	8.3	7.3	7.7	8.0	7.2	7.5	6.5	6.4	6.5	6.7	6.7	6.7
21	8.4	7.3	7.8	7.5	7.0	7.3	6.4	6.0	6.3	6.7	6.7	6.7
22	8.7	7.6	8.1	7.8	7.0	7.3	6.6	6.0	6.2	6.7	6.7	6.7
23	8.6	7.7	8.1	8.2	6.9	7.4	6.3	6.0	6.1	6.7	6.7	6.7
24	8.6	7.8	8.1	7.9	7.0	7.3	6.3	6.1	6.2	6.7	6.6	6.7
25	8.4	7.4	7.9	7.2	6.9	7.1	6.4	6.2	6.2	6.6	6.6	6.6
26	8.6	7.3	7.8	7.3	6.9	7.0	6.3	6.2	6.3	6.6	6.6	6.6
27	8.5	7.3	7.8	7.1	6.8	6.9	6.4	6.2	6.3	6.7	6.6	6.6
28	8.5	7.4	7.9	6.9	6.8	6.8	6.4	6.2	6.3	6.7	6.6	6.6
29	7.6	7.3	7.5	6.8	6.7	6.8	6.3	6.3	6.3	6.6	6.5	6.5
30	7.3	7.0	7.1	6.9	6.7	6.8	6.4	6.2	6.3	6.5	6.4	6.5
31	7.2	7.0	7.1	---	---	---	6.4	6.3	6.4	6.5	6.4	6.5
MONTH	---	---	---	8.2	6.7	7.2	7.3	6.0	6.7	6.8	6.4	6.6

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.5	6.5	6.8	6.3	6.7	6.8	6.7	6.7	7.3	6.7	7.0
2	6.5	6.5	6.5	6.7	6.7	6.7	6.8	6.6	6.7	7.2	6.8	7.0
3	6.6	6.5	6.5	6.7	6.7	6.7	6.8	6.5	6.7	6.9	6.7	6.8
4	6.6	6.5	6.6	6.8	6.7	6.8	6.8	6.5	6.6	7.0	6.6	6.8
5	6.6	6.6	6.6	6.8	6.7	6.8	6.5	6.4	6.4	7.1	6.7	6.9
6	6.7	6.6	6.6	6.8	6.7	6.8	6.4	6.4	6.4	6.9	6.7	6.8
7	6.6	6.5	6.5	6.7	6.6	6.7	6.5	6.4	6.4	6.9	6.6	6.8
8	6.6	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.6	7.6	6.7	7.2
9	6.6	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.6	7.5	7.2	7.3
10	6.6	6.6	6.6	6.7	6.6	6.7	6.6	6.5	6.6	7.3	7.2	7.3
11	6.6	6.6	6.6	6.8	6.7	6.7	6.7	6.6	6.7	7.6	7.1	7.3
12	6.7	6.6	6.6	6.8	6.7	6.8	6.8	6.6	6.7	7.3	7.1	7.2
13	7.0	6.6	6.8	6.8	6.7	6.8	6.8	6.7	6.8	7.1	6.8	6.9
14	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.7	6.7	6.9	6.8	6.8
15	6.9	6.8	6.9	6.8	6.7	6.8	6.8	6.7	6.8	7.1	6.8	7.0
16	6.9	6.9	6.9	6.7	6.6	6.7	6.7	6.6	6.6	7.2	7.0	7.1
17	6.9	6.8	6.9	6.7	6.6	6.6	7.0	6.7	6.8	7.2	7.0	7.1
18	7.0	6.9	6.9	6.6	6.5	6.6	7.1	6.9	7.0	7.3	7.0	7.1
19	7.0	6.9	6.9	6.6	6.6	6.6	7.1	7.0	7.1	7.4	7.0	7.2
20	6.9	6.7	6.8	6.8	6.6	6.7	7.2	7.1	7.2	7.5	7.1	7.3
21	6.8	6.7	6.8	6.7	6.6	6.6	7.3	7.2	7.3	7.6	7.1	7.4
22	6.8	6.7	6.8	6.6	6.5	6.6	7.3	7.2	7.3	7.7	7.1	7.4
23	6.7	6.6	6.7	6.6	6.4	6.5	7.5	7.2	7.4	7.3	7.0	7.2
24	6.6	6.5	6.6	6.6	6.5	6.6	7.4	7.3	7.3	7.6	6.9	7.2
25	6.6	6.5	6.6	6.7	6.6	6.6	7.5	7.3	7.4	7.1	6.9	7.0
26	6.7	6.6	6.7	6.7	6.6	6.7	7.5	7.3	7.4	7.3	7.0	7.1
27	6.7	6.7	6.7	6.8	6.6	6.7	7.6	7.3	7.4	7.3	7.0	7.1
28	6.8	6.7	6.7	6.9	6.7	6.8	7.6	7.3	7.5	7.4	7.0	7.2
29	---	---	---	6.8	6.6	6.7	7.7	7.3	7.5	7.7	7.0	7.2
30	---	---	---	6.6	6.6	6.6	7.5	6.8	7.2	7.7	7.3	7.5
31	---	---	---	6.8	6.6	6.7	---	---	---	7.6	7.2	7.4
MONTH	7.0	6.5	6.7	6.9	6.3	6.7	7.7	6.4	6.9	7.7	6.6	7.1

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.0	7.2	---	---	---	---	---	---	7.2	6.7	7.0
2	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
3	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
4	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
5	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
6	---	---	---	---	---	---	---	---	---	6.8	6.2	6.4
7	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
8	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
9	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
10	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
11	---	---	---	---	---	---	---	---	---	6.6	6.2	6.4
12	---	---	---	---	---	---	---	---	---	6.7	6.1	6.4
13	---	---	---	---	---	---	---	---	---	6.8	6.1	6.4
14	---	---	---	---	---	---	8.3	7.7	---	---	---	---
15	---	---	---	---	---	---	8.4	7.3	7.9	---	---	---
16	---	---	---	---	---	---	8.1	7.2	7.7	---	---	---
17	---	---	---	---	---	---	7.6	6.9	7.1	---	---	---
18	---	---	---	---	---	---	7.3	6.7	7.0	---	---	---
19	---	---	---	---	---	---	7.5	6.7	7.0	---	---	---
20	---	---	---	---	---	---	7.7	6.6	7.1	---	---	---
21	---	---	---	---	---	---	8.3	7.3	7.8	---	---	---
22	---	---	---	---	---	---	7.6	7.0	7.3	---	---	---
23	---	---	---	---	---	---	7.7	6.8	7.1	---	---	---
24	---	---	---	---	---	---	7.6	6.7	7.1	---	---	---
25	---	---	---	---	---	---	7.9	6.7	7.2	---	---	---
26	---	---	---	---	---	---	7.4	6.9	7.1	---	---	---
27	---	---	---	---	---	---	7.7	7.0	7.3	---	---	---
28	---	---	---	---	---	---	7.9	7.0	7.4	---	---	---
29	---	---	---	---	---	---	8.0	7.0	7.3	---	---	---
30	---	---	---	---	---	---	7.2	7.0	7.1	---	---	---
31	---	---	---	---	---	---	7.2	6.9	7.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.0	10.0	10.5	6.5	6.0	6.5	3.0	3.0	3.0
2	---	---	---	10.5	9.5	10.0	6.0	5.0	5.5	3.0	2.0	2.0
3	---	---	---	10.5	10.0	10.0	5.0	4.5	4.5	2.0	1.5	2.0
4	19.0	18.5	---	9.5	8.5	9.0	5.0	4.0	4.5	2.0	1.5	1.5
5	19.5	18.0	18.5	8.5	8.0	8.5	7.0	5.0	6.0	1.5	1.0	1.0
6	18.5	17.0	17.5	8.0	6.0	6.5	8.0	7.0	7.0	1.0	1.0	1.0
7	17.0	16.0	16.5	6.5	5.5	6.0	7.0	6.5	6.5	1.5	1.0	1.5
8	18.0	16.0	16.5	5.5	5.0	5.5	6.5	5.5	6.0	1.5	0.5	1.0
9	17.0	16.0	16.5	5.5	4.5	5.0	5.5	5.0	5.0	1.0	0.5	0.5
10	18.0	16.0	16.5	4.5	4.0	4.5	5.5	5.0	5.0	1.0	0.5	0.5
11	16.5	16.0	---	4.5	3.5	4.0	5.0	5.0	5.0	1.0	0.5	0.5
12	---	---	---	4.0	3.5	3.5	5.0	4.0	4.5	1.0	0.5	0.5
13	---	---	---	5.0	3.5	4.5	4.0	3.5	3.5	1.0	0.5	1.0
14	---	---	---	7.0	5.0	6.0	4.0	3.5	4.0	1.0	0.5	0.5
15	---	---	---	9.0	7.0	8.0	4.0	3.5	4.0	0.5	0.5	0.5
16	---	---	---	9.5	9.0	9.0	3.5	0.5	3.0	1.0	0.5	0.5
17	---	---	---	9.0	7.0	8.5	2.0	0.5	1.0	1.0	0.5	0.5
18	---	---	---	7.0	6.0	6.5	1.0	0.5	0.5	1.0	1.0	1.0
19	11.5	10.5	---	6.5	6.0	6.0	1.0	0.5	0.5	1.0	0.5	0.5
20	11.5	10.5	11.0	6.5	6.0	6.0	1.0	0.5	0.5	1.0	0.5	0.5
21	11.5	10.5	11.0	6.5	5.5	6.0	1.5	0.5	1.0	1.0	0.5	0.5
22	12.0	10.5	11.0	8.0	6.0	6.5	1.0	0.5	1.0	1.0	0.5	1.0
23	11.5	10.5	11.0	8.0	6.5	7.0	1.5	1.0	1.0	1.5	1.0	1.0
24	12.0	11.0	11.5	8.0	7.0	7.5	1.5	1.0	1.5	1.5	1.0	1.0
25	13.0	11.5	12.0	8.5	8.0	8.0	1.0	1.0	1.0	2.0	1.5	1.5
26	13.5	12.0	12.5	8.5	8.0	8.5	2.0	1.0	1.5	2.0	1.5	1.5
27	13.5	12.0	12.5	8.5	8.0	8.0	3.0	0.5	2.5	4.0	2.0	3.0
28	11.5	11.0	11.5	8.5	8.0	8.0	3.5	0.5	3.5	4.0	2.0	3.0
29	11.0	10.5	10.5	8.5	8.0	8.5	3.5	3.5	3.5	3.5	2.0	3.0
30	10.5	10.0	10.0	8.0	6.5	7.0	4.0	3.5	3.5	4.0	3.0	3.5
31	11.0	10.0	10.0	---	---	---	3.5	3.0	3.0	4.0	3.5	3.5
MONTH	---	---	---	11.0	3.5	7.0	8.0	0.5	3.5	4.0	0.5	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.5	3.5	4.0	3.5	3.5	4.5	3.5	4.0	17.0	15.5	16.0
2	3.0	1.5	2.5	3.5	3.5	3.5	5.5	4.5	4.5	16.0	15.0	15.5
3	1.5	0.5	1.0	3.5	3.5	3.5	6.5	5.0	5.5	14.5	13.0	13.5
4	1.0	0.5	0.5	5.0	3.5	4.0	9.0	6.5	7.5	13.5	11.5	12.5
5	1.0	0.5	0.5	5.5	5.0	5.0	9.5	9.0	9.0	13.0	11.5	12.0
6	1.0	0.5	0.5	5.5	5.0	5.5	9.0	7.0	8.0	11.5	10.5	11.5
7	1.0	0.5	0.5	6.5	5.0	5.5	7.0	6.0	6.5	10.5	10.0	10.5
8	0.5	0.5	0.5	6.0	5.5	5.5	6.5	6.0	6.0	11.0	9.5	10.5
9	0.5	0.5	0.5	5.5	4.5	5.0	6.0	5.0	5.5	11.5	10.5	11.0
10	0.5	0.5	0.5	5.0	4.0	4.5	5.0	4.5	4.5	11.5	11.0	11.0
11	0.5	0.5	0.5	4.5	4.0	4.5	6.0	4.5	5.0	13.0	10.5	11.5
12	1.0	0.5	0.5	5.0	4.0	4.5	8.0	6.0	6.5	13.5	13.0	13.0
13	1.0	0.5	0.5	4.5	3.5	4.0	9.0	8.0	8.5	13.0	11.5	12.0
14	2.0	1.0	1.5	3.5	3.0	3.0	9.5	8.5	9.0	13.0	10.5	11.5
15	2.0	1.5	1.5	4.0	3.0	3.5	10.0	9.5	10.0	15.0	12.0	13.5
16	1.0	0.5	1.0	4.0	4.0	4.0	10.0	9.0	9.5	17.0	15.0	16.0
17	1.5	0.5	1.0	4.0	4.0	4.0	9.0	8.0	8.5	18.5	16.5	17.0
18	2.0	1.0	1.5	4.0	3.0	3.5	9.5	8.5	9.0	19.0	17.0	18.0
19	2.0	1.5	1.5	4.5	3.5	4.0	9.5	9.0	9.0	19.0	17.0	18.0
20	3.0	1.5	2.0	5.0	4.0	4.5	9.5	8.5	9.0	18.5	17.0	18.0
21	3.0	1.5	2.5	5.0	4.0	4.5	10.5	9.0	9.5	18.5	16.5	17.5
22	4.5	3.0	3.5	4.0	3.5	4.0	11.5	10.5	11.0	19.0	16.5	18.0
23	4.0	2.0	3.5	4.5	3.5	4.0	13.0	11.5	12.0	19.5	18.5	19.0
24	2.0	0.5	1.0	5.5	4.5	5.0	12.0	10.5	11.5	19.5	18.5	18.5
25	2.0	1.5	1.5	5.0	4.5	4.5	10.5	10.0	10.5	19.0	17.0	18.0
26	1.5	1.0	1.5	4.5	4.0	4.0	11.0	10.0	10.5	17.0	16.0	16.5
27	2.0	1.0	1.5	4.5	4.0	4.0	11.5	9.5	10.5	16.0	15.5	15.5
28	3.5	1.5	2.5	5.5	4.0	5.0	13.0	11.0	12.0	16.0	14.5	15.5
29	---	---	---	5.0	2.0	4.0	15.5	13.0	14.0	15.5	15.0	15.5
30	---	---	---	2.0	1.5	1.5	16.5	15.0	15.5	17.0	15.5	16.0
31	---	---	---	3.5	1.5	2.5	---	---	---	18.0	16.5	17.0
MONTH	4.5	0.5	1.5	6.5	1.5	4.0	16.5	3.5	8.5	19.5	9.5	15.0

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.0	---	---	---	---	---	---	23.0	21.0	21.5
2	---	---	---	---	---	---	---	---	---	22.0	20.0	21.0
3	---	---	---	---	---	---	---	---	---	20.0	18.5	19.5
4	---	---	---	---	---	---	---	---	---	18.5	18.0	18.5
5	---	---	---	---	---	---	---	---	---	18.0	16.5	17.5
6	---	---	---	---	---	---	---	---	---	18.0	17.0	17.0
7	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
8	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
9	---	---	---	---	---	---	---	---	---	19.5	19.0	19.0
10	---	---	---	---	---	---	---	---	---	20.0	19.0	19.5
11	---	---	---	---	---	---	---	---	---	21.0	19.5	20.0
12	---	---	---	---	---	---	---	---	---	22.0	20.5	21.0
13	---	---	---	---	---	---	---	---	---	23.5	21.5	22.0
14	---	---	---	---	---	---	24.5	23.5	---	---	---	---
15	---	---	---	---	---	---	25.0	23.0	24.0	---	---	---
16	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
17	---	---	---	---	---	---	24.5	23.5	23.5	---	---	---
18	---	---	---	---	---	---	24.0	23.0	23.5	---	---	---
19	---	---	---	---	---	---	24.0	22.0	23.0	---	---	---
20	---	---	---	---	---	---	24.0	22.0	23.5	---	---	---
21	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
22	---	---	---	---	---	---	23.5	23.0	23.0	---	---	---
23	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
24	---	---	---	---	---	---	24.0	23.0	23.5	---	---	---
25	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
26	---	---	---	---	---	---	23.0	22.0	23.0	---	---	---
27	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
28	---	---	---	---	---	---	23.5	23.0	23.0	---	---	---
29	---	---	---	---	---	---	24.0	22.0	23.0	---	---	---
30	---	---	---	---	---	---	23.0	22.0	22.5	---	---	---
31	---	---	---	---	---	---	22.0	21.5	21.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, and 4.0 mi (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi^2 (10,749 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1974.
Water temperatures: October 1966 to September 1974.
Sediment records: July 1964 to September 1974.

EXTREMES.--1973-74
Water temperatures: Maximum daily, 26.0°C Aug. 4-6, 8, 13, 15, 20, 21, 26; minimum daily, freezing point Jan. 8, 10, 24, 26, 29, Feb. 3, 5, 7, 15.

Period of record:
Water temperatures: Maximum daily, 28.0°C July 28, 1968; minimum daily, freezing point on many days during winter period.

REMARKS.--Sediment data for this station on page 367. Records of discharge are given for 01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 04...	1030	66	6.7	4.0	13.4	1.1	0	5	1	--
FEB. 12...	1400	65	7.1	.1	14.8	.3	2	0	2	2.0
APR. 18...	0945	55	7.0	8.9	11.4	.5	60	40	14	--
MAY 21...	1430	68	8.0	18.3	10.1	1.3	5	50	6	--
JUNE 27...	1415	76	8.2	--	10.0	1.6	0	170	200	--
JULY 17...	1115	94	9.6	24.4	9.2	1.0	10	92	28	--
AUG. 21...	1700	71	8.9	26.5	11.6	2.4	24	16	472	4.0
SEP. 13...	1230	67	8.3	22.5	10.4	1.0	24	--	32	--

DATE	TIME	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
DEC. 04...	1030	.29	.00	.03	.08	.11	.41	.01	.00	.00
FEB. 12...	1400	.39	.00	.05	.10	.15	.54	.01	.01	.01
MAY 21...	1430	.20	.01	.04	.15	.19	.40	.04	.02	--

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG. 21...	1700	2.0	150	70	17	0	14

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
AUG. 21...	10	4.5	.2	49	4	2	.0

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	---	8.0	1.0	---	4.0	4.0	14.0	---	22.0	---	---
2	---	9.0	---	---	---	3.0	5.0	---	16.0	---	24.0	---
3	17.0	---	---	1.0	0.0	---	---	15.0	---	23.0	25.0	---
4	---	11.0	7.0	---	---	4.0	8.0	---	---	---	26.0	---
5	17.0	---	6.0	1.0	0.0	---	9.0	12.0	17.0	---	26.0	---
6	16.0	10.0	---	---	---	3.0	10.0	---	---	24.0	26.0	---
7	---	---	---	---	0.0	---	6.0	---	---	---	25.0	---
8	17.0	8.0	6.0	0.0	---	2.0	5.0	15.0	---	22.0	26.0	---
9	---	---	5.0	---	---	---	5.0	11.0	---	---	25.0	---
10	14.0	11.0	---	0.0	---	4.0	---	11.0	17.0	24.0	25.0	---
11	---	---	4.0	1.0	---	---	11.0	---	---	---	25.0	---
12	12.0	---	---	---	2.0	4.0	9.0	---	17.0	---	---	---
13	---	10.0	4.0	---	---	---	---	15.0	---	25.0	26.0	---
14	14.0	---	7.0	---	---	4.0	10.0	---	---	---	---	---
15	---	8.0	6.0	---	0.0	---	13.0	15.0	19.0	---	26.0	---
16	14.0	---	---	---	---	5.0	---	---	---	---	25.0	---
17	10.0	7.0	5.0	---	1.0	---	12.0	---	---	24.0	25.0	---
18	---	---	5.0	---	---	4.0	---	15.0	18.0	---	---	---
19	10.0	6.0	6.0	---	1.0	---	12.0	---	---	---	25.0	---
20	---	---	---	---	3.0	5.0	---	16.0	19.0	---	26.0	---
21	---	8.0	4.0	---	---	5.0	---	16.0	---	---	26.0	---
22	14.0	---	2.0	---	1.0	4.0	9.0	16.0	20.0	24.0	---	---
23	---	6.0	3.0	1.0	4.0	---	---	16.0	---	---	25.0	---
24	15.0	---	4.0	0.0	---	5.0	11.0	16.0	20.0	24.0	24.0	---
25	---	8.0	---	1.0	2.0	---	---	---	20.0	24.0	25.0	---
26	14.0	7.0	2.0	0.0	---	4.0	---	18.0	---	24.0	26.0	---
27	---	7.0	---	3.0	2.0	---	10.0	---	20.0	25.0	25.0	---
28	12.0	6.0	---	1.0	---	4.0	---	17.0	---	25.0	---	---
29	12.0	7.0	1.0	0.0	---	4.0	11.0	---	21.0	25.0	---	---
30	10.0	7.0	1.0	---	---	4.0	---	---	---	25.0	---	---
31	10.0	---	---	4.0	---	4.0	---	---	---	25.0	---	---

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N.J.)

LOCATION.--Lat 40°47'20", long 75°06'59", Northampton County, at Pennsylvania Railroad crossing 900 ft (274 m) upstream from Oughoughton Creek, 4.7 mi (7.5 km) east of Martins Creek.

DRAINAGE AREA.--4,546 mi^2 (11,774 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1974.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01446500 Delaware River at Belvidere, N.J.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JAN.									
30...	1045	29800	.30	--	.30	.31	.64	.95	1.2
FEB.									
13...	1130	7460	.60	--	.60	.20	.46	.66	1.3
20...	1020	8220	.60	--	.60	.23	1.0	1.2	1.8
MAR.									
06...	1215	13400	.41	.01	.42	.12	.02	.14	.56
27...	1025	14200	.00	--	.00	.18	.28	.46	.46
APR.									
10...	1300	26500	.35	.01	.36	.09	.05	.14	.50
24...	1100	10300	--	--	.37	.15	.17	.32	.69
30...	1155	6180	--	--	.32	.30	.67	.97	1.3
MAY									
15...	1045	22300	--	--	.27	.11	.50	.61	.88
29...	1150	4740	--	--	.30	.02	.21	.23	.53
JUNE									
05...	1045	6240	--	--	.20	.01	.25	.26	.46
19...	0930	6450	--	--	.26	.05	.43	.48	.74
JULY									
02...	1500	5400	--	--	.15	.09	.15	.24	.39
08...	1130	2700	--	--	.13	.26	.71	.97	1.1
23...	1330	2280	--	--	.19	.30	.24	.54	.73
AUG.									
06...	1725	3320	--	--	.17	.37	.22	.59	.76
14...	1220	2060	--	--	.09	.42	.88	1.3	1.4
28...	1010	2460	--	--	.18	.31	.37	.68	.86
SEP.									
11...	1200	5790	--	--	.23	.34	.57	.91	1.1
18...	0710	3760	--	--	.13	.32	.27	.59	.72

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUSPENDED SOLIDS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
JAN.									
30...	.10	.02	43	--	36	95	6.6	2.5	15
FEB.									
13...	.03	--	60	--	4	110	--	1.5	2
20...	.09	--	72	--	12	135	--	3.5	3
MAR.									
06...	.57	--	49	39	14	76	6.9	5.5	1
27...	.03	--	53	--	7	75	6.4	4.0	3
APR.									
10...	.02	--	61	--	15	95	--	5.5	2
24...	.03	--	60	--	7	109	6.6	12.0	1
30...	.04	--	95	--	5	136	--	--	3
MAY									
15...	.04	--	40	--	41	95	--	16.5	7
29...	.03	--	65	--	--	110	--	20.0	3
JUNE									
05...	.03	--	56	--	7	80	7.2	20.5	4
19...	.09	--	66	--	12	100	--	23.0	5
JULY									
02...	.03	--	69	--	24	120	--	23.5	3
08...	.03	--	72	--	6	135	--	35.0	3
23...	.03	--	69	--	2	120	7.8	28.0	1
AUG.									
06...	.03	--	84	--	1	130	7.2	27.8	2
14...	.03	--	63	--	2	120	8.2	30.0	2
28...	.05	--	89	--	60	130	6.8	33.0	8
SEP.									
11...	.03	--	79	--	6	120	7.8	21.0	3
18...	.02	--	78	--	13	130	--	19.0	2

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.								
30...	14.2	78	.8	.6	--	110	380	23
FEB.								
13...	15.0	28	--	.2	--	--	100	4.0
20...	14.0	200	--	.5	--	440	1500	2.5
MAR.								
06...	13.0	8	--	1.1	--	--	--	3.0
27...	13.2	56	.8	1.5	--	25	7	5.0
APR.								
10...	12.2	14	2.8	5.6	--	E19	--	6.5
24...	10.6	18	2.8	.9	1.8	74	--	14
30...	10.0	15	3.0	1.7	4.3	8	--	10
MAY								
15...	9.6	16	.8	18	4.1	91	84	6.0
29...	8.4	9	--	1.1	19	24	94	--
JUNE								
05...	8.8	25	3.0	2.4	4.3	44	44	2.9
19...	8.6	16	4.0	23	2.6	--	56	4.6
JULY								
02...	8.0	3	3.0	4.5	9.2	2200	--	7.4
08...	6.9	15	4.8	.8	5.3	<2	--	--
23...	7.8	9	3.8	20	6.0	--	--	1.7
AUG.								
06...	8.3	13	2.0	--	--	150	--	4.7
14...	7.4	14	5.6	.2	1.0	E35	E1000	5.6
28...	6.4	14	2.0	3.0	.4	E100	--	--
SEP.								
11...	7.7	18	6.3	--	--	--	--	7.8
18...	8.5	11	3.0	2.4	1.0	E2000	180	5.2

DATE	TIME	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAR.										
06...	1215	--	7.0	--	1.7	--	3.0	--	1.2	17
JUNE										
05...	1045	9.5	--	2.6	--	4.1	--	1.0	--	28

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAR.									
06...	0	14	12	5.3	.1	--	24	11	3.0
JUNE									
05...	0	23	12	5.8	--	10	--	--	2.8

01446700 DELAWARE RIVER AT EASTON, PA.

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, at gaging station on right bank 200 ft (61 m) from city of Easton pumping station, 1.2 mi (1.9 km) upstream from Bushkill Creek in Easton.

DRAINAGE AREA.--4,640 mi^2 (12,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1951, October 1957 to September 1958, November 1967 to September 1974.
Water temperatures: October 1947 to September 1949, October 1957 to September 1958, October 1963 to September 1964, November 1967 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 198 micromhos Dec. 10; minimum, 98 micromhos Sept. 5.
Dissolved oxygen: Maximum, 14.5 mg/l Nov. 21; minimum, 6.1 mg/l Aug. 27.
pH: Maximum, 9.7 Nov. 15; minimum, 6.5 Aug. 25-27.
Water temperatures: Maximum, 28.0°C Aug. 29; minimum, 5.0°C Dec. 4.

Period of record:
Specific conductance (1967-74): Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.
Dissolved oxygen (1967-74): Maximum, 15.8 mg/l Mar. 8, 1968; minimum, 5.7 mg/l July 19-20, 24, 1968.
pH (1967-74): Maximum, 9.8 May 16, 1970; minimum, 5.7 May 24, 1970.
Water temperatures: Maximum, 30.0°C July 18, 1968, July 28-29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--No records available January to August 1974.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	160	150	157	120	115	116	---	---	---
2	---	---	---	160	158	159	120	115	116	---	---	---
3	---	---	---	160	159	159	130	120	123	---	---	---
4	---	---	---	160	159	160	135	125	129	---	---	---
5	---	---	---	160	160	160	135	120	129	---	---	---
6	---	---	---	160	160	160	130	125	129	---	---	---
7	---	---	---	167	160	162	189	125	144	---	---	---
8	---	---	---	170	163	166	190	149	167	---	---	---
9	150	146	---	170	169	170	189	159	168	---	---	---
10	150	145	---	169	163	167	198	188	---	---	---	---
11	---	---	---	163	153	159	---	---	---	---	---	---
12	---	---	---	157	145	151	---	---	---	---	---	---
13	---	---	---	146	141	144	---	---	---	---	---	---
14	---	---	---	141	132	137	---	---	---	---	---	---
15	---	---	---	138	130	134	---	---	---	---	---	---
16	---	---	---	138	135	137	---	---	---	---	---	---
17	144	140	---	137	135	136	---	---	---	---	---	---
18	155	145	151	137	135	135	---	---	---	---	---	---
19	156	154	---	137	135	137	---	---	---	---	---	---
20	---	---	---	140	137	138	---	---	---	---	---	---
21	---	---	---	141	130	134	---	---	---	---	---	---
22	---	---	---	135	130	131	---	---	---	---	---	---
23	---	---	---	135	131	133	---	---	---	---	---	---
24	---	---	---	139	132	137	---	---	---	---	---	---
25	149	149	---	141	135	139	---	---	---	---	---	---
26	149	145	148	140	131	135	---	---	---	---	---	---
27	149	149	149	135	120	126	---	---	---	---	---	---
28	150	149	149	125	120	123	---	---	---	---	---	---
29	160	150	150	120	115	119	---	---	---	---	---	---
30	160	160	160	120	115	118	---	---	---	---	---	---
31	160	160	160	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	170	115	144	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	134	109	123
2	---	---	---	---	---	---	---	---	---	158	113	128
3	---	---	---	---	---	---	---	---	---	137	99	107
4	---	---	---	---	---	---	---	---	---	123	107	115
5	---	---	---	---	---	---	---	---	---	119	98	109
6	---	---	---	---	---	---	---	---	---	121	102	107
7	---	---	---	---	---	---	---	---	---	118	99	113
8	---	---	---	---	---	---	---	---	---	116	111	113
9	---	---	---	---	---	---	---	---	---	113	111	112
10	---	---	---	---	---	---	---	---	---	115	113	114
11	---	---	---	---	---	---	---	---	---	125	115	119
12	---	---	---	---	---	---	---	---	---	127	116	121
13	---	---	---	---	---	---	---	---	---	122	115	119
14	---	---	---	---	---	---	---	---	---	130	117	123
15	---	---	---	---	---	---	---	---	---	131	125	128
16	---	---	---	---	---	---	---	---	---	142	133	139
17	---	---	---	---	---	---	---	---	---	155	135	140
18	---	---	---	---	---	---	---	---	---	148	135	139
19	---	---	---	---	---	---	---	---	---	151	140	144
20	---	---	---	---	---	---	---	---	---	154	143	149
21	---	---	---	---	---	---	---	---	---	155	148	150
22	---	---	---	---	---	---	---	---	---	158	151	154
23	---	---	---	---	---	---	---	---	---	165	150	160
24	---	---	---	---	---	---	130	123	---	150	134	142
25	---	---	---	---	---	---	135	125	129	133	121	126
26	---	---	---	---	---	---	157	129	134	136	123	129
27	---	---	---	---	---	---	156	126	131	146	136	141
28	---	---	---	---	---	---	129	119	124	160	146	152
29	---	---	---	---	---	---	134	125	---	171	155	162
30	---	---	---	---	---	---	149	125	---	159	108	130
31	---	---	---	---	---	---	157	136	140	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	171	98	130

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.1	10.6	10.8	12.9	12.1	12.5	---	---	---
2	---	---	---	11.8	10.8	11.2	13.5	12.5	13.0	---	---	---
3	---	---	---	11.9	10.8	11.3	13.8	12.9	13.2	---	---	---
4	---	---	---	---	---	---	13.9	12.8	13.3	---	---	---
5	---	---	---	---	---	---	12.8	12.5	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	11.8	9.7	---	---	---	---	---	---	---	---	---	---
10	9.5	8.1	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	14.0	12.5	---	---	---	---	---	---	---
15	---	---	---	13.9	11.8	12.7	---	---	---	---	---	---
16	---	---	---	11.9	10.8	11.4	---	---	---	---	---	---
17	12.2	10.5	---	12.7	10.8	11.6	---	---	---	---	---	---
18	11.8	10.1	10.9	12.9	11.2	11.9	---	---	---	---	---	---
19	13.0	10.5	---	13.4	11.4	12.3	---	---	---	---	---	---
20	---	---	---	14.1	12.0	12.9	---	---	---	---	---	---
21	---	---	---	14.5	12.7	13.3	---	---	---	---	---	---
22	---	---	---	14.4	12.3	13.1	---	---	---	---	---	---
23	---	---	---	14.5	12.3	13.2	---	---	---	---	---	---
24	---	---	---	13.6	11.9	12.6	---	---	---	---	---	---
25	13.3	11.2	---	12.9	11.4	11.9	---	---	---	---	---	---
26	13.1	10.5	11.6	13.0	11.4	12.1	---	---	---	---	---	---
27	12.8	10.0	11.3	12.2	11.6	11.8	---	---	---	---	---	---
28	13.2	10.1	11.5	12.0	11.3	11.6	---	---	---	---	---	---
29	11.2	10.3	10.7	11.8	11.2	11.5	---	---	---	---	---	---
30	10.6	9.9	10.4	12.3	11.7	12.1	---	---	---	---	---	---
31	11.1	10.5	10.8	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.3	7.4	7.8
2	---	---	---	---	---	---	---	---	---	7.8	7.5	7.7
3	---	---	---	---	---	---	---	---	---	8.1	7.4	7.8
4	---	---	---	---	---	---	---	---	---	8.0	7.5	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	9.0	8.9	---
7	---	---	---	---	---	---	---	---	---	9.1	8.9	9.0
8	---	---	---	---	---	---	---	---	---	9.0	8.8	8.9
9	---	---	---	---	---	---	---	---	---	8.8	8.5	8.7
10	---	---	---	---	---	---	---	---	---	8.7	8.3	8.5
11	---	---	---	---	---	---	---	---	---	8.7	8.0	8.4
12	---	---	---	---	---	---	---	---	---	8.2	7.7	8.0
13	---	---	---	---	---	---	---	---	---	8.3	7.5	7.8
14	---	---	---	---	---	---	---	---	---	8.4	7.3	7.8
15	---	---	---	---	---	---	---	---	---	8.9	7.7	8.2
16	---	---	---	---	---	---	---	---	---	9.4	7.9	8.6
17	---	---	---	---	---	---	---	---	---	9.9	8.0	8.8
18	---	---	---	---	---	---	---	---	---	10.0	8.3	9.0
19	---	---	---	---	---	---	---	---	---	10.2	8.2	9.0
20	---	---	---	---	---	---	---	---	---	9.9	8.1	8.8
21	---	---	---	---	---	---	---	---	---	9.5	8.0	8.6
22	---	---	---	---	---	---	---	---	---	10.3	8.2	9.2
23	---	---	---	---	---	---	---	---	---	10.8	8.6	9.7
24	---	---	---	---	---	---	9.1	7.5	---	11.3	9.4	10.2
25	---	---	---	---	---	---	8.8	6.3	7.7	10.6	9.3	10.0
26	---	---	---	---	---	---	8.0	6.8	7.4	10.6	9.1	9.7
27	---	---	---	---	---	---	8.2	6.1	7.2	10.7	8.9	9.7
28	---	---	---	---	---	---	7.8	6.3	7.1	9.2	8.4	8.7
29	---	---	---	---	---	---	7.7	6.5	6.8	8.8	8.0	8.5
30	---	---	---	---	---	---	7.6	6.7	7.3	8.9	8.6	---
31	---	---	---	---	---	---	7.9	7.0	7.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	11.3	7.3	8.7

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.4	7.0	7.2	7.7	7.4	7.5	---	---	---
2	---	---	---	7.7	7.1	7.3	7.9	7.4	7.6	---	---	---
3	---	---	---	7.7	7.1	7.4	8.1	7.5	7.7	---	---	---
4	---	---	---	7.6	7.0	7.3	8.4	7.5	7.9	---	---	---
5	---	---	---	7.6	7.2	7.3	7.6	7.4	7.5	---	---	---
6	---	---	---	7.9	7.2	7.4	7.9	7.6	7.7	---	---	---
7	---	---	---	8.0	7.4	7.6	7.8	7.5	7.6	---	---	---
8	---	---	---	8.1	7.3	7.6	7.7	7.6	7.6	---	---	---
9	9.2	7.9	---	8.0	7.3	7.7	7.6	7.5	7.5	---	---	---
10	7.9	7.5	---	8.2	7.3	7.7	7.7	7.6	---	---	---	---
11	---	---	---	8.4	7.5	7.9	---	---	---	---	---	---
12	---	---	---	8.7	7.5	8.0	---	---	---	---	---	---
13	---	---	---	8.8	7.7	8.1	---	---	---	---	---	---
14	---	---	---	9.3	7.4	8.2	---	---	---	---	---	---
15	---	---	---	9.7	7.3	8.4	---	---	---	---	---	---
16	---	---	---	8.4	7.5	8.0	---	---	---	---	---	---
17	8.9	7.7	---	8.9	7.7	8.2	---	---	---	---	---	---
18	8.3	7.3	7.8	8.8	7.7	8.1	---	---	---	---	---	---
19	8.8	7.3	---	9.0	7.5	8.1	---	---	---	---	---	---
20	---	---	---	9.0	7.6	8.1	---	---	---	---	---	---
21	---	---	---	8.8	7.4	7.9	---	---	---	---	---	---
22	---	---	---	9.5	7.4	8.1	---	---	---	---	---	---
23	---	---	---	9.3	7.4	8.1	---	---	---	---	---	---
24	---	---	---	8.8	7.4	7.9	---	---	---	---	---	---
25	9.0	7.5	---	8.4	7.5	7.7	---	---	---	---	---	---
26	9.1	7.2	8.0	8.5	7.5	7.9	---	---	---	---	---	---
27	9.0	7.1	8.0	7.6	7.4	7.6	---	---	---	---	---	---
28	8.9	7.2	8.0	7.7	7.4	7.5	---	---	---	---	---	---
29	7.5	7.0	7.2	7.8	7.6	7.7	---	---	---	---	---	---
30	7.2	6.9	7.1	7.8	7.5	7.6	---	---	---	---	---	---
31	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	9.7	7.0	7.8	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	6.9	6.7	---
7	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
8	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
9	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
10	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
11	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
12	---	---	---	---	---	---	---	---	---	7.3	6.8	7.0
13	---	---	---	---	---	---	---	---	---	7.6	6.8	7.1
14	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
15	---	---	---	---	---	---	---	---	---	7.8	6.9	7.3
16	---	---	---	---	---	---	---	---	---	7.9	7.0	7.4
17	---	---	---	---	---	---	---	---	---	7.9	7.0	7.4
18	---	---	---	---	---	---	---	---	---	8.0	7.0	7.5
19	---	---	---	---	---	---	---	---	---	8.1	7.0	7.5
20	---	---	---	---	---	---	---	---	---	8.0	7.1	7.5
21	---	---	---	---	---	---	---	---	---	7.8	7.0	7.3
22	---	---	---	---	---	---	---	---	---	8.0	7.0	7.5
23	---	---	---	---	---	---	---	---	---	8.1	7.1	7.5
24	---	---	---	---	---	---	7.6	6.9	---	8.0	7.1	7.6
25	---	---	---	---	---	---	7.5	6.5	7.1	8.4	7.0	7.7
26	---	---	---	---	---	---	7.0	6.5	6.8	8.5	7.4	7.9
27	---	---	---	---	---	---	7.3	6.5	6.8	8.5	7.4	8.0
28	---	---	---	---	---	---	7.8	6.8	7.3	7.7	7.2	7.5
29	---	---	---	---	---	---	7.6	7.1	---	7.4	7.2	7.3
30	---	---	---	---	---	---	---	---	---	7.2	7.0	7.1
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.5	6.7	7.3

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	11.5	11.5	7.0	6.5	7.0	---	---	---
2	---	---	---	11.5	11.0	11.0	6.5	5.5	6.0	---	---	---
3	---	---	---	11.5	11.0	11.5	6.0	5.5	5.5	---	---	---
4	---	---	---	11.5	10.5	11.0	6.0	5.0	5.5	---	---	---
5	---	---	---	11.0	10.0	10.5	8.5	6.0	7.0	---	---	---
6	---	---	---	10.0	8.5	9.5	9.0	8.0	8.5	---	---	---
7	---	---	---	9.5	8.5	8.5	8.0	7.0	7.0	---	---	---
8	---	---	---	8.5	8.0	8.5	7.0	6.5	7.0	---	---	---
9	19.5	19.0	---	8.5	7.0	8.0	7.0	6.5	6.5	---	---	---
10	21.0	18.5	---	7.0	6.5	6.5	7.0	7.0	---	---	---	---
11	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
12	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
13	---	---	---	8.0	6.5	7.0	---	---	---	---	---	---
14	---	---	---	8.5	7.0	7.5	---	---	---	---	---	---
15	---	---	---	9.5	8.0	8.5	---	---	---	---	---	---
16	---	---	---	10.0	9.5	9.5	---	---	---	---	---	---
17	16.0	14.5	---	9.0	8.5	9.0	---	---	---	---	---	---
18	14.5	13.5	14.0	8.5	8.0	8.0	---	---	---	---	---	---
19	14.0	12.0	---	8.5	8.0	8.0	---	---	---	---	---	---
20	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
21	---	---	---	8.0	7.0	7.0	---	---	---	---	---	---
22	---	---	---	8.5	8.0	8.0	---	---	---	---	---	---
23	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
24	---	---	---	9.0	8.5	8.5	---	---	---	---	---	---
25	14.0	13.5	---	9.5	9.0	9.5	---	---	---	---	---	---
26	14.5	13.5	14.0	9.5	9.0	9.0	---	---	---	---	---	---
27	15.5	14.0	14.5	9.0	9.0	9.0	---	---	---	---	---	---
28	14.5	14.0	14.0	10.0	9.0	9.0	---	---	---	---	---	---
29	14.0	13.5	13.5	9.5	8.5	9.0	---	---	---	---	---	---
30	13.5	11.5	12.0	8.5	7.0	8.0	---	---	---	---	---	---
31	12.0	11.0	11.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	12.0	5.5	8.5	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	23.5	21.0	22.5
2	---	---	---	---	---	---	---	---	---	22.0	19.0	20.5
3	---	---	---	---	---	---	---	---	---	19.0	16.5	17.5
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	18.5	18.0	---
7	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
8	---	---	---	---	---	---	---	---	---	20.0	18.0	18.5
9	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
10	---	---	---	---	---	---	---	---	---	23.0	20.5	21.5
11	---	---	---	---	---	---	---	---	---	22.0	20.5	21.0
12	---	---	---	---	---	---	---	---	---	23.0	20.0	21.5
13	---	---	---	---	---	---	---	---	---	24.5	21.5	23.0
14	---	---	---	---	---	---	---	---	---	23.5	22.0	23.0
15	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
16	---	---	---	---	---	---	---	---	---	21.0	19.0	20.0
17	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0
18	---	---	---	---	---	---	---	---	---	21.0	19.0	20.0
19	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5
20	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
21	---	---	---	---	---	---	---	---	---	21.0	19.5	20.5
22	---	---	---	---	---	---	---	---	---	19.5	18.0	19.0
23	---	---	---	---	---	---	---	---	---	18.0	15.0	16.5
24	---	---	---	---	---	---	26.5	25.0	---	15.5	13.5	14.5
25	---	---	---	---	---	---	26.5	24.0	25.0	16.5	13.5	15.0
26	---	---	---	---	---	---	24.5	23.5	24.0	18.0	15.0	16.5
27	---	---	---	---	---	---	26.0	24.0	24.5	19.0	15.5	17.0
28	---	---	---	---	---	---	26.0	24.5	25.0	18.5	18.0	18.0
29	---	---	---	---	---	---	28.0	23.5	25.0	18.5	17.0	18.0
30	---	---	---	---	---	---	27.0	24.0	25.5	17.0	16.0	16.0
31	---	---	---	---	---	---	24.0	21.5	23.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	24.5	13.5	19.0

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA.

LOCATION.--Lat 40°53'51", long 75°30'10", Monroe County, temperature recorder at gaging station on right bank 20 ft (6 m) downstream from bridge on U.S. Route 209 at Kresgeville, 0.2 mi (0.3 km) downstream from Middle Creek, and 13 mi (21 km) northeast of Lehighton.

DRAINAGE AREA.--49.9 mi^2 (129 km^2).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1970, May 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 23.5°C July 9; minimum, freezing point Jan. 14.

Period of record:
Water temperatures (1968-74): Maximum, 31.5°C July 25, 1970; minimum, freezing point Feb. 20, 21, 23, 1972, Jan. 14, 1974.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	11.5	12.5	11.5	9.5	11.0	6.5	4.0	5.5	5.5	5.0	5.5
2	14.0	13.0	13.5	11.0	9.0	10.0	4.0	2.5	3.5	5.0	3.5	4.0
3	16.0	14.5	15.0	11.0	9.5	10.5	4.5	2.0	3.5	4.0	2.5	3.5
4	16.0	14.0	15.0	9.5	8.0	8.5	7.0	4.0	5.5	6.0	2.5	4.0
5	16.5	14.5	15.5	9.0	7.5	8.0	10.0	7.0	8.5	4.0	2.5	3.5
6	14.5	12.5	13.5	8.0	6.5	7.0	9.0	7.0	8.5	4.5	3.5	4.0
7	13.0	11.0	12.5	7.5	6.0	6.5	7.0	6.0	6.5	4.5	4.0	4.5
8	14.5	12.5	13.5	7.5	5.0	6.5	6.0	5.0	5.5	4.0	2.5	3.0
9	14.5	12.5	13.5	7.5	6.0	7.0	7.0	5.0	6.0	2.0	1.5	1.5
10	15.0	13.0	14.0	6.0	4.5	5.0	7.0	6.5	6.5	2.5	1.5	2.0
11	14.0	12.5	13.0	5.5	3.5	4.5	6.5	5.5	6.0	4.0	2.5	3.5
12	13.5	11.0	12.5	6.5	4.5	5.5	6.0	4.5	5.0	3.5	2.0	2.5
13	14.5	12.0	13.5	9.0	6.0	7.5	5.5	3.5	4.5	1.5	0.5	1.0
14	14.5	12.5	14.0	10.0	8.5	9.5	6.5	5.0	6.0	1.5	0.0	0.5
15	13.5	10.5	12.0	11.5	9.0	10.0	5.0	4.5	5.0	4.0	1.5	2.5
16	13.0	11.0	12.0	11.5	8.0	10.0	4.5	2.0	3.5	5.5	4.0	4.5
17	11.0	9.0	10.0	8.0	5.5	6.5	2.0	1.0	1.5	5.0	2.5	4.5
18	9.5	8.5	9.0	6.0	4.5	5.5	1.5	0.5	1.0	2.5	0.5	1.0
19	10.0	7.5	9.0	7.5	6.0	7.0	2.0	1.0	1.5	3.5	0.5	2.0
20	11.5	9.0	10.0	6.5	4.5	5.5	4.5	2.0	2.5	3.0	1.5	2.0
21	11.0	9.0	10.0	7.0	4.5	5.5	4.0	2.5	3.5	4.0	2.5	3.0
22	11.0	8.0	9.5	9.5	7.0	8.0	3.5	2.0	2.5	4.5	3.5	4.0
23	11.0	8.5	9.5	8.0	6.0	7.0	5.0	3.5	4.0	5.0	3.5	4.5
24	11.5	9.0	10.0	8.0	6.5	7.0	5.0	3.5	4.5	5.0	4.0	4.5
25	11.5	8.5	10.0	9.0	8.0	9.0	4.5	3.5	3.5	5.5	4.0	4.5
26	12.0	9.5	10.5	9.0	7.5	8.0	5.5	4.5	5.0	5.0	3.0	4.0
27	12.0	9.5	11.0	9.0	7.5	8.5	7.0	5.0	6.0	7.0	5.0	6.0
28	10.0	9.0	9.5	10.5	9.0	9.5	7.0	6.0	6.5	6.5	5.0	5.5
29	11.0	9.0	10.0	9.5	7.0	8.0	6.5	5.5	6.0	6.5	5.5	6.0
30	11.5	10.5	11.0	7.0	5.0	6.0	6.5	5.0	5.5	7.0	5.0	6.0
31	11.5	9.5	10.5	---	---	---	5.0	5.0	5.0	7.0	4.5	5.5
MONTH	16.5	7.5	12.0	11.5	3.5	7.5	10.0	0.5	5.0	7.0	0.0	3.5

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.0	5.5	6.5	5.5	6.0	7.0	4.5	5.5	16.5	12.5	14.0
2	5.0	3.5	4.5	6.0	5.0	5.5	8.0	5.5	6.5	13.5	9.0	11.5
3	3.5	3.0	3.0	6.5	6.0	6.5	11.0	5.5	8.0	12.0	9.0	10.0
4	3.5	2.5	3.0	9.0	6.0	7.0	12.0	9.0	10.5	13.5	8.5	11.0
5	2.5	1.0	2.0	10.5	9.0	9.5	11.0	9.0	10.0	11.0	7.5	9.5
6	3.0	1.5	2.0	9.0	6.0	7.0	8.5	6.5	7.5	9.5	8.5	9.0
7	4.0	3.0	3.5	9.0	7.0	8.0	9.5	5.0	7.5	9.5	7.0	8.0
8	3.0	2.5	2.5	8.5	6.0	7.0	8.5	6.5	7.5	12.0	6.5	9.0
9	2.5	1.0	2.0	6.0	5.0	5.0	6.5	5.5	6.0	10.5	9.5	10.0
10	2.5	0.5	1.5	7.0	5.0	6.0	8.0	4.5	6.5	13.0	10.5	11.5
11	3.5	2.0	2.5	6.0	3.5	5.0	9.5	5.5	7.5	14.5	9.0	12.0
12	4.0	1.5	2.5	7.0	4.5	5.5	10.5	7.0	9.0	13.5	11.0	12.0
13	5.5	2.5	4.0	4.5	2.0	3.5	11.5	9.0	10.0	12.0	10.5	11.0
14	5.5	3.5	4.5	5.5	2.0	3.5	10.5	9.0	10.0	15.5	9.5	12.5
15	4.0	2.5	3.0	6.0	2.5	4.5	9.5	9.0	9.5	17.5	12.0	15.0
16	3.5	1.0	2.0	6.0	5.0	5.5	12.0	7.5	9.5	17.0	13.0	15.0
17	5.0	3.0	4.0	5.5	4.5	5.0	12.5	7.0	10.0	17.0	14.0	15.5
18	4.0	2.5	3.0	6.5	2.5	4.5	13.0	8.0	10.5	17.5	14.0	16.0
19	4.0	3.0	3.5	7.0	4.0	5.5	11.0	8.5	9.5	16.5	13.0	15.0
20	4.5	2.5	3.5	7.5	4.5	6.0	12.5	7.0	9.5	15.5	11.5	14.0
21	5.0	1.5	3.5	6.0	4.5	5.0	13.0	7.5	10.5	16.0	11.5	14.0
22	6.0	4.5	5.0	6.5	3.5	5.0	13.0	11.0	12.0	17.5	13.0	15.5
23	5.5	4.0	5.0	8.0	3.5	6.0	14.5	11.0	12.5	16.5	15.0	15.5
24	5.0	3.0	4.0	8.0	5.5	7.0	10.5	8.5	9.5	16.0	13.0	14.5
25	5.0	3.5	4.0	6.5	2.5	4.5	11.5	7.5	9.5	15.0	12.5	13.5
26	3.5	1.5	2.5	6.5	2.5	4.5	12.0	7.5	10.0	13.5	11.5	12.5
27	4.0	1.5	2.5	7.0	3.5	5.5	13.5	7.5	10.5	13.0	11.0	12.0
28	5.5	2.0	3.5	7.5	5.0	6.5	14.5	8.5	11.5	14.5	11.0	12.5
29	---	---	---	6.5	0.5	3.0	16.5	11.5	14.0	13.5	12.5	13.0
30	---	---	---	3.5	1.0	2.5	15.5	13.0	14.5	16.0	13.0	14.5
31	---	---	---	5.0	3.5	4.5	---	---	---	15.5	14.0	14.5
MONTH	6.5	0.5	3.5	10.5	0.5	5.5	16.5	4.5	9.5	17.5	6.5	12.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.5	14.5	19.0	16.5	17.5	19.5	16.5	18.0	---	---	---
2	15.0	13.5	13.5	20.5	16.5	18.5	20.0	17.5	18.5	---	---	---
3	16.5	12.0	14.0	20.5	18.0	19.5	20.0	18.0	18.5	---	---	---
4	16.5	13.5	15.0	22.5	19.0	20.5	20.0	18.0	19.0	---	---	---
5	18.0	14.0	16.0	21.5	20.0	20.5	---	---	---	---	---	---
6	17.5	14.0	16.0	22.0	18.5	20.0	---	---	---	---	---	---
7	16.5	15.0	15.5	22.0	18.0	20.0	---	---	---	---	---	---
8	16.5	14.5	15.0	23.0	19.5	21.0	---	---	---	---	---	---
9	18.5	15.0	16.5	23.5	20.0	22.0	---	---	---	---	---	---
10	21.0	16.5	19.0	22.5	21.5	22.0	---	---	---	---	---	---
11	21.0	18.0	19.5	21.5	18.0	20.0	---	---	---	---	---	---
12	18.0	15.5	16.5	20.5	17.0	18.5	---	---	---	---	---	---
13	17.0	13.5	15.5	20.5	17.0	18.5	---	---	---	---	---	---
14	16.5	14.0	15.5	22.0	18.0	20.0	---	---	---	17.5	15.0	16.5
15	17.5	14.0	16.0	23.0	21.0	22.0	---	---	---	15.0	13.0	14.0
16	17.0	16.0	16.5	22.5	20.0	21.5	---	---	---	15.0	13.0	14.5
17	19.0	15.5	17.5	21.0	17.5	19.0	---	---	---	15.0	13.0	14.0
18	18.0	15.0	16.5	20.5	17.5	19.0	---	---	---	15.5	14.0	15.0
19	18.0	14.5	16.5	22.0	19.5	20.5	---	---	---	15.5	13.5	14.5
20	19.0	16.5	18.0	20.5	18.0	19.0	---	---	---	16.0	14.5	15.5
21	18.0	17.0	17.5	19.0	16.0	17.5	---	---	---	16.0	14.5	15.5
22	20.0	16.5	18.0	18.5	15.5	17.0	---	---	---	14.5	12.5	13.5
23	18.5	15.5	17.0	18.0	16.5	17.5	---	---	---	13.0	11.0	12.0
24	17.5	14.5	16.0	17.5	16.0	16.5	---	---	---	11.0	9.0	10.0
25	16.5	15.0	15.5	17.5	15.5	16.5	---	---	---	11.5	9.0	10.0
26	16.0	14.0	15.0	17.0	16.0	16.5	---	---	---	12.5	10.0	11.5
27	17.5	15.0	16.0	19.5	16.5	17.5	---	---	---	13.5	10.5	12.0
28	16.5	15.0	16.0	21.0	18.0	19.5	---	---	---	14.5	12.5	13.5
29	17.0	15.0	16.0	21.0	18.5	20.0	---	---	---	15.5	14.5	15.0
30	18.0	15.0	16.5	20.0	17.5	19.0	---	---	---	14.5	12.5	13.5
31	---	---	---	19.5	17.0	18.5	---	---	---	---	---	---
MONTH	21.0	12.0	16.0	23.5	15.5	19.0	---	---	---	---	---	---

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA.

LOCATION.--Lat 40°50'44", long 75°38'46", Carbon County, temperature recorder at gaging station on right bank 0.1 mi (0.2 km) upstream from Sawmill Run, 0.4 mi (0.7 km) downstream from Beltzville Dam, 1.3 mi (2.1 km) upstream from Bull Run, and 2.3 mi (3.7 km) northeast of Parryville.

DRAINAGE AREA.--96.4 mi^2 (250 km^2).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 19.0°C Oct. 1; minimum, 2.0°C on several days during January and February.

Period of record:
Water temperatures: Maximum, 26.5°C on several days during July, August 1970; minimum, freezing point Dec. 9, 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	15.0	16.0	13.5	13.0	13.5	8.5	8.5	8.5	---	---	3.5
2	15.5	15.5	15.5	13.5	13.0	13.5	8.5	8.5	8.5	---	---	3.5
3	16.5	16.0	16.0	13.5	13.0	13.0	8.5	8.0	8.5	---	---	3.5
4	18.0	16.5	17.5	13.0	12.5	13.0	8.5	8.0	8.5	---	---	3.0
5	18.0	17.5	17.5	12.5	12.0	12.5	8.5	8.5	8.5	3.5	3.0	3.0
6	18.0	17.5	17.5	12.0	12.0	12.0	8.5	8.0	8.0	3.5	3.0	3.5
7	18.0	17.5	17.5	12.0	11.5	12.0	8.0	8.0	8.0	3.5	3.5	3.5
8	18.0	17.5	17.5	11.5	11.5	11.5	8.0	8.0	8.0	3.5	3.0	3.0
9	18.0	17.5	17.5	11.5	11.0	11.5	8.0	7.5	7.5	3.0	2.5	3.0
10	18.0	17.0	17.5	11.0	10.5	11.0	8.0	7.5	8.0	2.5	2.0	2.5
11	17.5	17.0	17.0	10.5	10.5	10.5	8.0	7.0	7.5	3.0	2.5	2.5
12	18.0	17.0	17.0	10.5	10.0	10.0	7.5	7.0	7.0	3.0	2.5	3.0
13	17.5	17.0	17.0	10.5	10.0	10.5	7.0	7.0	7.0	3.0	2.5	2.5
14	17.0	16.5	17.0	10.5	10.0	10.5	7.0	7.0	7.0	3.0	2.5	2.5
15	17.5	16.5	17.0	11.0	10.5	10.5	7.0	6.5	6.5	3.0	2.5	3.0
16	17.0	16.5	16.5	10.5	10.0	10.0	6.5	6.5	6.5	3.0	3.0	3.0
17	16.5	16.0	16.0	10.0	9.5	10.0	6.5	6.0	6.0	3.0	3.0	3.0
18	16.5	16.0	16.0	10.0	9.5	10.0	6.0	6.0	6.0	3.0	2.5	2.5
19	16.5	15.5	16.0	10.0	9.5	9.5	6.0	5.5	6.0	3.0	2.5	2.5
20	16.5	15.5	15.5	10.0	9.0	9.5	5.5	5.0	5.5	3.0	2.5	3.0
21	16.0	15.5	15.5	9.5	9.0	9.5	5.5	4.5	5.0	2.5	2.5	2.5
22	16.0	15.5	15.5	10.0	9.0	9.5	5.0	4.5	4.5	3.0	2.5	3.0
23	15.5	15.0	15.5	9.5	9.0	9.5	4.5	4.5	4.5	3.0	3.0	3.0
24	15.5	15.0	15.0	9.5	9.0	9.5	4.5	4.5	4.5	3.5	3.0	3.0
25	15.5	15.0	15.0	9.5	9.5	9.5	4.0	4.0	4.5	3.5	3.0	3.5
26	15.5	15.0	15.0	9.5	9.0	9.0	4.0	4.0	4.0	3.5	3.5	3.5
27	15.5	15.0	15.0	9.5	9.0	9.0	4.0	4.0	4.0	3.5	3.5	3.5
28	15.0	14.5	14.5	9.5	9.0	9.0	4.0	4.0	4.0	3.5	3.5	3.5
29	14.5	14.0	14.0	9.0	8.5	9.0	---	---	4.0	4.0	3.5	3.5
30	14.0	14.0	14.0	9.0	8.5	8.5	---	---	4.0	4.0	3.5	4.0
31	14.5	13.5	14.0	---	---	---	---	---	3.5	4.0	4.0	4.0
MONTH	19.0	13.5	16.0	13.5	8.5	10.5	8.5	4.0	6.0	4.0	2.0	3.0

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.5	3.5	3.0	3.0	3.0	4.5	4.0	4.0	10.0	9.0	9.5
2	3.5	3.0	3.0	3.0	2.5	3.0	4.5	4.0	4.0	11.0	9.5	10.0
3	3.0	2.5	2.5	3.0	2.5	3.0	5.0	4.5	4.5	10.0	9.5	10.0
4	3.0	2.5	2.5	3.0	3.0	3.0	5.0	4.5	4.5	11.0	9.5	10.0
5	3.0	2.5	3.0	3.5	3.0	3.0	5.0	5.0	5.0	10.5	9.5	10.0
6	2.5	2.5	2.5	3.5	3.0	3.0	5.0	5.0	5.0	10.0	9.5	9.5
7	2.5	2.0	2.0	3.5	3.5	3.5	5.5	5.0	5.0	10.0	9.0	9.5
8	2.0	2.0	2.0	3.5	3.5	3.5	6.0	5.5	5.5	10.5	9.5	9.5
9	2.0	2.0	2.0	3.5	3.5	3.5	6.0	6.0	6.0	10.0	9.5	9.5
10	2.5	2.0	2.0	3.5	3.5	3.5	6.0	6.0	6.0	11.0	10.0	10.0
11	2.5	2.0	2.5	3.5	3.5	3.5	6.5	6.0	6.0	11.0	9.5	10.5
12	3.0	2.0	2.5	3.5	3.5	3.5	6.5	6.0	6.0	11.0	9.5	10.0
13	3.0	2.5	2.5	3.5	3.5	3.5	7.0	6.5	6.5	10.0	9.5	9.5
14	3.0	2.5	2.5	3.5	3.5	3.5	7.0	6.5	6.5	11.0	10.0	10.0
15	3.0	2.5	2.5	3.5	3.5	3.5	7.0	6.5	6.5	11.0	10.0	10.5
16	3.0	2.5	2.5	3.5	3.5	3.5	7.0	6.5	6.5	11.5	10.5	11.0
17	3.0	2.5	3.0	3.5	3.5	3.5	7.0	7.0	7.0	11.5	10.5	11.0
18	3.0	2.5	2.5	4.0	3.5	3.5	7.5	7.0	7.0	12.0	11.5	11.5
19	3.0	2.5	3.0	4.0	3.5	3.5	8.0	7.0	7.0	13.0	12.0	12.0
20	3.0	2.5	3.0	4.0	3.5	3.5	8.0	7.0	7.0	12.5	11.5	12.0
21	3.5	2.5	3.0	4.0	3.5	3.5	8.0	7.5	7.5	12.5	11.0	12.0
22	3.5	3.0	3.0	4.0	4.0	4.0	8.5	7.5	7.5	12.5	11.5	12.0
23	3.0	2.5	3.0	4.0	4.0	4.0	8.5	7.0	7.5	12.5	12.5	12.5
24	3.0	2.5	3.0	4.5	4.0	4.0	8.5	7.0	8.0	13.0	11.5	12.5
25	3.0	2.5	2.5	4.5	4.0	4.0	9.0	8.0	8.5	13.0	12.5	12.5
26	3.0	2.5	2.5	4.5	4.0	4.0	9.0	8.5	8.5	13.0	12.0	12.5
27	3.0	2.5	2.5	4.5	4.0	4.0	9.0	8.5	8.5	13.5	12.5	13.0
28	3.0	2.5	3.0	4.5	4.0	4.5	9.0	8.5	9.0	13.5	12.5	12.5
29	---	---	---	4.5	4.0	4.0	9.5	8.0	8.5	13.0	12.5	12.5
30	---	---	---	4.0	4.0	4.0	10.0	8.5	9.5	13.0	12.5	12.5
31	---	---	---	4.0	4.0	4.0	---	---	---	13.5	13.0	13.0
MONTH	4.0	2.0	2.5	4.5	2.5	3.5	10.0	4.0	6.5	13.5	9.0	11.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	13.0	13.0	14.5	13.0	13.5	13.5	12.5	13.0	15.5	15.0	15.5
2	13.5	13.0	13.0	14.5	13.0	13.5	13.5	12.5	12.5	15.5	15.5	15.5
3	13.5	13.0	13.0	14.5	13.0	13.5	13.5	12.0	12.5	16.0	15.0	15.5
4	13.0	12.5	13.0	14.5	13.0	13.5	13.5	12.5	12.5	15.5	15.0	15.5
5	13.5	12.5	13.0	14.5	13.0	13.5	14.0	12.5	13.0	15.5	15.0	15.5
6	13.5	13.0	13.0	14.5	13.0	14.0	13.5	12.5	12.5	15.5	15.0	15.5
7	14.0	13.5	13.5	14.5	13.0	13.5	13.0	12.0	12.5	15.5	15.0	15.5
8	14.0	13.0	13.5	14.5	13.0	14.0	13.5	12.0	12.5	15.5	15.0	15.0
9	14.0	12.5	13.0	14.5	13.0	14.0	13.5	12.0	12.5	15.5	15.0	15.0
10	14.0	12.5	13.0	14.5	13.0	13.5	14.5	12.0	13.0	15.5	15.0	15.0
11	13.5	12.5	13.0	14.0	12.5	13.0	15.0	12.0	13.5	15.5	15.0	15.0
12	13.5	12.5	13.0	14.0	12.5	13.0	14.5	13.0	14.0	15.5	15.0	15.5
13	14.0	12.5	13.0	14.0	12.5	13.0	14.5	13.5	14.0	15.5	15.0	15.5
14	14.0	13.0	13.0	14.0	12.5	13.0	15.0	13.5	14.0	16.0	15.5	15.5
15	14.0	13.0	13.5	14.0	12.0	12.5	15.0	13.5	14.0	15.5	15.0	15.5
16	13.5	13.0	13.0	14.0	11.5	12.5	14.5	13.5	14.0	17.0	15.5	15.5
17	14.5	13.0	13.0	13.5	11.5	12.5	14.5	13.5	14.0	16.0	15.0	15.5
18	14.0	13.0	13.5	13.0	11.5	12.5	15.0	13.5	14.0	16.0	15.5	15.5
19	14.0	13.0	13.5	13.5	12.0	12.5	15.0	14.5	14.5	16.0	15.5	15.5
20	14.5	13.0	13.5	13.0	11.5	12.0	15.5	14.5	14.5	15.5	15.0	15.5
21	13.5	13.0	13.0	13.5	11.5	12.0	15.5	14.5	14.5	16.0	15.0	15.5
22	14.5	13.0	13.5	13.5	11.5	12.5	16.0	14.5	15.5	16.0	15.0	15.5
23	13.5	13.0	13.5	13.0	12.0	12.5	16.5	14.5	15.5	15.5	15.0	15.0
24	13.5	13.0	13.5	12.5	12.0	12.0	15.5	14.5	15.0	15.5	14.5	15.0
25	14.0	13.0	13.5	13.5	12.0	12.5	15.5	14.5	15.0	15.5	14.5	15.0
26	14.0	13.0	13.5	13.0	12.0	12.5	15.0	14.5	15.0	15.5	14.5	15.0
27	14.5	13.0	13.5	13.0	12.0	12.5	15.5	14.5	15.0	15.5	14.5	15.0
28	14.0	13.0	13.5	13.5	12.5	12.5	15.5	14.5	15.0	15.0	14.5	15.0
29	13.5	13.0	13.5	13.5	12.5	12.5	15.5	15.0	15.0	15.5	14.5	15.0
30	14.0	13.0	13.5	14.0	12.5	13.0	15.5	15.0	15.0	15.5	14.5	15.0
31	---	---	---	14.0	12.5	13.0	15.5	15.0	15.0	---	---	---
MONTH	14.5	12.5	13.5	14.5	11.5	13.0	16.5	12.0	14.0	17.0	14.5	15.5

01451695 JORDAN CREEK NEAR PLEASANT CORNERS, PA.

LOCATION.--Lat 40°39'55", long 75°41'19", Lehigh County, at double-span concrete bridge 1.3 mi (2.1 km) south of Pleasant Corners.

DRAINAGE AREA.--14.3 mi^2 (37.0 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to June 1974.
Sediment records: August 1972 to February 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 393.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 29...	1200	8.0	1.9	.07	.46	.53	.02	.00
NOV. 14...	0920	10	2.9	.02	.29	.31	.02	.00
DEC. 05...	1130	19	2.3	.11	.73	.84	.02	.02
JAN. 22...	1130	60	1.0	.07	.61	.68	.08	.03
FEB. 20...	0945	33	3.8	.08	.77	.85	.10	.02
MAR. 20...	1025	27	3.6	.06	.33	.39	.02	.01
APR. 16...	1115	59	3.3	.07	1.1	1.2	.04	.02
MAY 08...	1430	9.7	2.5	.08	.29	.37	.01	.01
JUNE 19...	0915	3.0	2.7	.13	.52	.65	.06	.02

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 29...	170	6.7	9.5	11.0	1400	470	1300	--
NOV. 14...	160	7.0	9.0	12.0	430	130	250	5.0
DEC. 05...	160	6.6	10.0	11.0	5600	600	1700	1.0
JAN. 22...	162	7.7	4.0	13.0	8000	430	1100	5.0
FEB. 20...	160	6.8	3.0	13.6	1300	520	3100	2.5
MAR. 20...	160	7.3	4.5	13.8	140	F15	120	1.2
APR. 16...	150	6.2	10.5	11.4	2100	810	780	2.0
MAY 08...	130	8.3	14.5	11.4	290	83	150	1.0
JUNE 19...	161	6.8	16.5	10.6	3200	700	1200	2.5

DATE	TIME	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
JUNE 19...	0915	3000	800	22	5.0	515	537	120	300	8.0	.5

DATE	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
JUNE 19...	4	1	0	5	8	27	.1	4	0	342

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA.

LOCATION.--Lat 40°39'34", long 75°41'33", Lehigh County, at wooden bridge on dirt road 1.7 mi (2.7 km) south of Pleasant Corners, and 0.2 mi (0.3 km) above mouth.

DRAINAGE AREA.--8.43 mi^2 (21.8 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to June 1974.
Sediment records: August 1972 to February 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 393.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT.									
29...	1130	3.0	--	2.5	.07	.50	.57	.04	.01
NOV.									
14...	0900	2.0	--	4.7	.01	.32	.33	.15	.14
DEC.									
05...	1115	13	--	2.7	.10	.76	.86	.03	.02
JAN.									
22...	1100	55	--	1.4	.09	.61	.70	.13	.03
FEB.									
20...	0930	12	--	5.4	.18	.84	1.0	.08	--
MAR.									
20...	1000	19	--	4.5	.04	.30	.34	.02	.01
APR.									
16...	1100	42	--	2.9	.05	.73	.78	.03	.01
MAY									
08...	1420	3.0	--	3.2	.10	.34	.44	.01	.00
JUNE									
19...	0845	2.0	64	2.3	.11	.58	.69	.04	.02

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
29...	185	6.4	10.0	10.4	170	54	800	--
NOV.								
14...	205	6.7	9.0	1.2	330	120	180	5.0
DEC.								
05...	180	6.5	9.5	10.4	4200	130	820	1.5
JAN.								
22...	195	7.5	4.0	12.6	1100	360	800	1.5
FEB.								
20...	190	6.8	3.0	12.8	1700	650	1400	2.0
MAR.								
20...	175	7.5	5.0	13.4	250	20	150	2.6
APR.								
16...	155	6.2	9.0	12.2	590	150	170	3.5
MAY								
08...	180	8.4	15.0	11.8	280	20	36	1.1
JUNE								
19...	200	6.6	17.0	9.4	1800	390	1100	--

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	LOSS ON IGNI-TION IN BOTTOM DE-POSITS (MG/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)
JUNE 19...	0845	14000	1700	7.0	28	2770	2780	220	900	24	.5

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
JUNE 19...	.0	47	1.2	.8	.7	1.5	.0	.0	.0	.0	16

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
JUNE 19...	0	3	1	7	10	17	39	56	11	0	74

01451738 LYON CREEK AT LYON VALLEY, PA.

LOCATION.--Lat 40°37'30", long 75°40'27", Lehigh County, at single span concrete bridge on country road 0.4 mi (0.6 km) southwest of Lyon Valley and 2.3 mi (3.7 km) from mouth.

DRAINAGE AREA.--7.52 mi^2 (19.5 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to June 1974.
Sediment records: August 1972 to February 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 393.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
OCT.								
29...	1425	14	2.5	.08	1.1	1.2	.22	.01
NOV.								
14...	1050	6.0	4.1	.03	.57	.60	.02	.00
DEC.								
05...	1330	37	2.7	.33	1.4	1.7	.17	.14
JAN.								
22...	1400	45	1.5	.20	.61	.81	.14	.04
FEB.								
20...	1130	10	5.0	.08	.72	.80	.09	.01
MAR.								
20...	1230	24	5.0	.04	.32	.36	.03	.01
APR.								
16...	1430	19	4.2	.08	.52	.60	.02	.01
MAY								
08...	1610	6.0	3.2	.18	.38	.56	.01	.00
JUNE								
19...	1120	4.0	2.7	.15	.67	.82	.05	.02

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
29...	210	7.0	10.0	10.4	57000	33000	50000	--
NOV.								
14...	210	6.0	10.0	12.0	E1400	1400	840	3.5
DEC.								
05...	175	6.8	10.5	10.0	45000	20000	70000	8.0
JAN.								
22...	195	7.2	7.0	12.0	6600	6270	1500	3.0
FEB.								
20...	190	7.6	6.0	13.0	3900	170	2200	2.0
MAR.								
20...	190	7.0	7.0	13.0	<25	<10	500	.0
APR.								
16...	200	8.2	15.0	10.6	100	500	100	2.0
MAY								
08...	200	8.2	16.5	11.0	55	27	53	1.2
JUNE								
19...	200	8.4	19.0	9.4	E13000	14000	2700	2.0

DATE	TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE											
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE										
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA.

LOCATION.--Lat 40°40'35", long 75°38'25", Lehigh County, at concrete bridge on Pennsylvania Route 309, 2.0 mi (3.2 km) west of Schnecksville.

DRAINAGE AREA.--5.19 mi^2 (13.4 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to June 1974.
Sediment records: August 1972 to January 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 393.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 29...	1310	2.0	2.5	.09	.69	.78	.32	.26
NOV. 14...	1000	1.0	3.4	.07	.35	.42	.27	.26
DEC. 05...	1245	30	1.9	.23	2.5	2.7	.30	.25
JAN. 22...	1245	24	1.4	.08	.64	.72	.16	.06
FEB. 20...	1015	3.5	6.3	.10	.81	.91	.13	.07
MAR. 20...	1130	7.5	5.2	.03	.28	.31	.06	.04
APR. 16...	1300	25	4.3	.03	.75	.78	.06	.02
MAY 08...	1450	1.0	3.6	.12	.31	.43	.11	.09
JUNE 19...	1000	1.0	3.2	.16	.63	.79	.27	.22

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 29...	265	6.6	9.5	10.0	3600	530	4400	--
NOV. 14...	265	7.2	8.5	11.4	250	50	300	6.0
DEC. 05...	140	6.7	11.0	10.0	1300000	1600	21000	22
JAN. 22...	210	7.2	5.0	13.0	19000	470	1000	.5
FEB. 20...	230	7.6	0.0	13.0	2800	200	900	.9
MAR. 20...	200	7.3	5.5	12.2	500	73	60	1.1
APR. 16...	180	6.2	13.0	10.0	440	140	600	2.0
MAY 08...	210	6.3	13.0	12.4	140	20	65	1.2
JUNE 19...	260	6.7	16.0	9.7	111000	11000	13000	3.3

DATE	TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE 19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE 19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA.

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, on upstream side of wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi (1.6 km) downstream from Mill Creek, and 1.1 mi (1.8 km) southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi^2 (137 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.
Sediment records: August 1972 to April 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 394.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT.									
29...	1345	19	--	2.3	.06	.61	.67	.07	.02
NOV.									
14...	1020	80	--	3.8	.08	.43	.51	.04	.00
DEC.									
05...	1300	105	--	2.7	.11	.90	1.0	.04	.02
JAN.									
22...	1310	246	--	1.1	.12	.48	.60	.15	.03
FEB.									
20...	1030	--	--	4.5	.17	1.0	1.2	.13	.04
MAR.									
20...	1145	--	--	1.8	.05	.04	.09	.03	.01
APR.									
16...	1330	--	80	4.2	.17	.72	.89	.04	.01
MAY									
08...	1500	--	--	2.3	.15	.31	.46	.01	.00
JUNE									
19...	1030	--	58	2.7	.22	.74	.96	.07	.03
SEP.									
12...	0930	5.6	66	1.3	.03	.24	.27	.03	.03

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
29...	240	7.0	10.0	11.2	1000	360	2100	--
NOV.								
14...	210	7.3	9.5	12.0	667	220	600	6.0
DEC.								
05...	175	8.0	9.0	11.2	6000	300	7000	2.0
JAN.								
22...	165	7.3	6.0	13.0	3500	230	800	1.0
FEB.								
20...	180	7.6	4.0	13.2	2700	830	11000	8.0
MAR.								
20...	175	7.0	8.5	10.6	250	213	430	--
APR.								
16...	175	8.6	11.0	11.6	800	900	500	.8
MAY								
08...	175	6.7	16.0	10.0	56	63	87	1.0
JUNE								
19...	160	6.3	20.0	10.4	11000	11000	700	--
SEP.								
12...	200	7.6	17.0	10.0	3600	160	800	--

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	LOSS ON IGNI- TION IN BOTTOM DE- POSITS (MG/KG)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)
JUNE 19...	1030	4900	670	11	38	3480	3490	302	531000	4.7	.6
SEP. 12...	0930	15000	520	--	--	--	--	--	--	--	--

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
JUNE 19...	3.4	30	15	37	14	4.7	.0	.0	.0	.0	0
SEP. 12...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	TOTAL ARSENI IN BOTTO DE- POSIT (UG/	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE- POSITS (UG/G)	TOTAL SELE- NIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
JUNE 19...	0		1	6	8	20	45	33	8	0	134
SEP. 12...	--		1	7	9	12	20	.0	10	--	62

01454720 LEHIGH RIVER AT EASTON, PA.

LOCATION.--Lat 40°41'12", long 75°12'32", Northampton County, at Third Street Bridge, Easton, U.S. Highway 611.

DRAINAGE AREA.--1,360 mi^2 (3,530 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1974.
Water temperatures: October 1961 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 411 micromhos July 19; minimum, 120 micromhos Dec. 10-12.
Dissolved oxygen: Maximum, 14.0 mg/l Mar. 10-12; minimum, 2.0 mg/l Aug. 17.
pH: Maximum, 7.9 Apr. 4; minimum, 6.2 Sept. 6.
Water temperatures: Maximum, 28.5°C July 9, 10; minimum, 0.5°C Dec. 18, 19, Feb. 6.

Period of record:
Specific conductance: Maximum, 581 micromhos Aug. 19, 1963; minimum, 70 micromhos Nov. 14, 1970.
Dissolved oxygen (1966-74): Maximum, 15.0 mg/l Feb. 22, 23, 1971; minimum, 0.0 mg/l Aug. 4, 1966.
pH (1972-74): Maximum, 8.1 Apr. 25, 1973; minimum, 6.2 Sept. 6, 1974.
Water temperatures: Maximum, 30.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	260	235	247	170	158	161	210	200	205	208	195	201
2	270	209	240	181	170	177	220	205	214	209	200	204
3	215	190	203	194	181	188	225	210	220	228	199	207
4	202	189	197	199	187	193	240	225	233	299	238	258
5	245	200	219	200	188	191	250	218	231	300	268	280
6	270	240	255	214	190	207	220	145	172	298	281	289
7	280	260	267	229	204	217	153	138	145	300	292	298
8	280	260	269	229	203	218	162	147	155	310	230	274
9	311	262	290	220	201	210	168	140	157	230	219	223
10	312	290	305	218	200	209	143	120	127	230	200	214
11	313	300	309	220	202	210	125	120	121	310	230	258
12	320	302	311	213	204	209	130	120	124	320	270	298
13	340	307	318	262	210	232	140	130	138	270	252	264
14	320	309	313	271	250	260	149	140	146	262	250	253
15	320	308	311	282	250	262	155	145	149	270	250	263
16	340	308	319	261	250	255	145	135	140	290	260	272
17	350	330	339	262	245	253	160	142	151	290	270	283
18	355	339	346	260	250	253	178	164	170	280	260	272
19	341	321	335	259	248	252	180	170	175	315	268	290
20	340	340	---	261	244	254	219	160	175	335	280	307
21	---	---	---	281	257	270	240	195	209	350	260	288
22	---	---	---	300	280	289	270	180	226	370	258	289
23	---	---	---	290	260	275	205	190	199	262	215	240
24	---	---	---	291	260	276	217	160	192	220	210	216
25	360	343	---	281	268	274	180	162	174	215	210	213
26	370	360	369	287	260	277	209	162	180	210	200	206
27	376	360	366	280	265	272	220	180	202	211	200	204
28	360	300	360	270	255	260	230	205	219	200	190	195
29	350	310	336	270	235	250	210	200	205	190	170	183
30	310	182	260	235	208	221	208	192	201	180	170	172
31	181	154	160	---	---	---	199	186	191	180	170	178
MONTH	376	154	290	300	158	236	250	120	179	370	170	245

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	190	180	184	230	220	227	225	209	216	308	289	298
2	200	190	193	230	216	221	230	212	221	302	285	294
3	215	198	207	230	220	227	218	190	204	298	278	287
4	220	200	204	230	217	221	197	160	172	299	278	288
5	240	210	226	238	222	231	160	143	150	310	275	293
6	240	220	233	240	228	232	150	138	144	310	299	305
7	268	240	253	236	229	231	156	143	150	320	305	316
8	288	250	267	249	229	234	170	154	162	320	279	297
9	275	250	261	250	220	235	170	159	165	299	278	288
10	308	258	285	229	192	209	170	160	164	298	280	289
11	270	255	263	191	182	187	197	174	185	293	277	286
12	278	258	267	190	181	186	199	199	---	282	249	271
13	280	270	278	200	189	194	---	---	---	250	167	198
14	292	270	285	219	200	210	---	---	---	168	150	158
15	290	278	283	223	218	220	---	---	---	172	158	167
16	287	270	277	225	217	220	---	---	---	199	173	188
17	298	272	283	222	191	210	---	---	---	207	192	200
18	290	275	281	191	174	188	221	211	---	219	200	206
19	318	279	294	210	191	199	235	220	226	219	205	213
20	330	270	305	218	202	210	238	215	226	222	210	217
21	274	265	270	216	208	211	229	218	223	240	219	229
22	281	265	274	211	177	189	230	219	226	240	228	235
23	270	180	201	188	170	177	249	229	239	256	229	245
24	185	150	163	181	178	180	270	240	258	258	240	249
25	199	150	170	199	180	186	270	250	261	261	242	255
26	200	199	196	219	202	211	271	250	261	269	250	259
27	215	198	205	228	210	218	270	259	265	260	247	255
28	230	216	224	228	218	221	278	260	270	269	245	254
29	---	---	---	239	228	235	282	260	274	280	249	266
30	---	---	---	276	239	257	299	265	287	300	270	287
31	---	---	---	264	225	238	---	---	---	310	290	301
MONTH	330	150	244	276	170	213	299	138	---	320	150	255

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	310	290	300	289	258	277	322	300	313	187	160	177
2	293	259	275	257	229	243	310	284	300	172	159	164
3	260	239	254	235	225	230	320	280	302	170	145	158
4	268	245	257	239	227	236	290	269	281	160	150	157
5	280	258	272	269	236	254	285	249	266	160	149	154
6	290	269	284	287	262	277	288	258	271	175	150	164
7	312	290	302	300	288	292	290	268	279	190	174	183
8	318	297	308	306	290	297	301	281	294	190	182	188
9	321	307	314	312	298	304	319	291	304	200	187	192
10	320	310	315	327	317	[illegible]	320	270	291	213	200	204
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	232	216	224
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	248	230	237
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250	219	242
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	270	213	232
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01454720 LEHIGH RIVER AT EASTON,PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.2	8.7	8.9	12.2	11.9	12.0	11.5	11.3	11.4	---	---	---
2	9.7	8.8	9.2	12.1	12.0	12.1	11.9	11.5	11.6	---	---	---
3	9.6	9.1	9.3	12.0	11.6	11.8	12.0	11.8	11.9	---	---	---
4	9.2	8.8	9.0	12.0	11.7	11.9	11.8	11.6	11.7	---	---	---
5	8.8	7.7	8.1	12.1	11.8	12.0	11.6	9.9	10.6	---	---	---
6	8.3	7.7	8.0	12.2	11.7	11.9	10.9	9.8	10.6	---	---	---
7	8.5	8.0	8.3	12.3	11.9	12.1	11.8	11.0	11.5	---	---	---
8	8.9	8.3	8.6	12.3	12.0	12.2	---	---	---	---	---	---
9	8.8	7.7	8.3	12.3	11.2	11.6	---	---	---	---	---	---
10	8.6	7.7	8.3	11.6	11.2	11.3	---	---	---	---	---	---
11	8.8	7.8	8.2	11.6	11.4	11.5	---	---	---	---	---	---
12	9.2	8.1	8.6	11.6	11.1	11.3	---	---	---	---	---	---
13	9.0	7.9	8.4	11.1	9.9	10.5	---	---	---	---	---	---
14	9.3	7.8	8.4	9.9	8.8	9.4	---	---	---	---	---	---
15	9.5	7.7	8.5	9.4	8.5	9.0	---	---	---	---	---	---
16	8.9	7.3	8.1	8.9	8.4	8.6	---	---	---	---	---	---
17	9.9	7.3	8.5	9.6	8.7	9.2	---	---	---	---	---	---
18	9.5	8.5	9.0	10.3	9.7	10.1	---	---	---	---	---	---
19	10.5	9.0	9.6	10.9	10.4	10.6	---	---	---	---	---	---
20	9.8	9.8	---	10.9	10.6	10.7	---	---	---	---	---	---
21	---	---	---	10.9	10.6	10.8	---	---	---	---	---	---
22	---	---	---	10.8	10.3	10.6	---	---	---	---	---	---
23	---	---	---	10.8	10.3	10.5	---	---	---	---	---	---
24	---	---	---	10.5	10.2	10.4	---	---	---	---	---	---
25	10.3	8.4	---	10.1	9.7	9.9	---	---	---	---	---	---
26	10.1	8.0	8.7	10.2	9.7	10.0	---	---	---	---	---	---
27	10.0	7.6	8.6	10.6	10.1	10.3	---	---	---	---	---	---
28	10.0	7.9	8.7	10.2	9.8	10.0	---	---	---	---	---	---
29	9.6	8.8	9.2	10.8	9.6	10.2	---	---	---	---	---	---
30	12.3	9.3	10.7	11.5	10.9	11.1	---	---	---	---	---	---
31	12.5	12.0	---	---	---	---	---	---	---	---	---	---
MONTH	12.5	7.3	---	12.3	8.4	10.8	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.1	12.9	---	12.5	12.1	12.4	9.3	6.9	7.9
2	---	---	---	13.0	12.8	12.9	12.1	11.7	11.8	10.1	7.6	8.6
3	---	---	---	13.1	12.7	12.9	11.7	11.4	11.6	8.7	8.2	8.4
4	---	---	---	13.1	12.6	12.9	11.3	10.1	10.4	10.3	8.5	9.3
5	---	---	---	12.5	11.6	11.9	10.7	10.2	10.4	10.9	9.3	9.9
6	---	---	---	12.6	11.6	12.1	11.8	10.8	11.2	10.1	8.8	9.5
7	---	---	---	12.6	12.3	12.4	12.2	11.8	12.1	9.7	8.8	9.2
8	---	---	---	12.6	11.8	12.2	11.9	11.4	11.5	10.2	8.9	9.5
9	---	---	---	13.2	12.1	12.5	12.1	11.6	11.9	9.0	8.1	8.6
10	---	---	---	14.0	13.3	13.7	12.5	12.1	12.3	8.6	7.8	8.1
11	---	---	---	14.0	13.7	13.9	12.3	11.9	12.0	9.0	7.8	8.3
12	---	---	---	14.0	13.8	13.9	11.8	11.5	---	8.2	7.5	7.9
13	---	---	---	13.9	13.1	13.5	---	---	---	9.6	7.8	8.9
14	---	---	---	13.6	13.2	13.4	---	---	---	10.1	9.3	9.8
15	---	---	---	13.6	13.0	13.2	---	---	---	9.4	8.8	9.1
16	---	---	---	13.0	12.0	12.4	---	---	---	[illegible]	[illegible]	[illegible]
17	---	---	---	12.5	11.8	12.2	---	---	---	[illegible]	[illegible]	[illegible]
18	---	---	---	13.1	12.5	12.8	10.2	9.8	---	[illegible]	[illegible]	[illegible]
19	---	---	---	13.1	12.4	12.7	9.9	9.6	9.7	[illegible]	[illegible]	[illegible]
20	---	---	---	12.3	12.0	12.2	10.5	9.9	10.3	[illegible]	[illegible]	[illegible]
21	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---
30	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
MONTH	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.5	7.1	7.3	7.0	5.2	5.9	---	---	---
2	---	---	---	8.0	6.9	7.4	7.0	4.0	5.3	---	---	---
3	---	---	---	7.5	6.9	7.2	4.9	4.2	4.6	---	---	---
4	---	---	---	7.6	6.3	7.0	5.9	4.2	5.1	---	---	---
5	8.0	6.7	---	6.6	5.7	6.1	5.7	4.8	5.2	---	---	---
6	7.6	6.1	7.0	7.1	5.5	6.1	5.6	4.6	5.2	9.2	9.1	---
7	7.0	5.9	6.5	7.5	5.7	6.3	5.7	4.8	5.3	9.4	9.1	9.2
8	7.0	5.9	6.4	7.5	5.5	6.3	5.9	4.3	5.1	9.3	8.5	8.9
9	7.3	5.7	6.3	7.6	4.7	5.9	6.1	4.2	4.9	8.4	7.9	8.2
10	6.8	4.8	5.8	8.0	3.9	5.6	5.3	4.8	5.1	7.9	7.3	7.6
11	5.8	3.4	4.7	8.5	3.4	5.7	7.2	5.2	6.4	7.7	6.7	7.2
12	---	---	---	8.6	3.8	6.0	7.8	5.9	6.8	7.6	6.9	7.2
13	7.8	5.4	---	8.8	4.1	6.2	6.9	5.9	6.3	6.9	6.1	6.6
14	8.4	5.3	6.7	9.1	3.8	6.1	7.3	4.8	5.8	6.8	6.2	6.5
15	7.9	5.6	6.7	7.8	3.0	5.1	6.4	4.0	5.3	---	---	---
16	7.1	5.4	6.3	3.7	2.1	---	5.9	2.6	4.0	---	---	---
17	7.2	6.7	6.9	11.5	4.1	---	5.2	2.0	3.2	7.4	7.2	---
18	7.0	6.5	6.9	9.8	3.6	6.2	5.6	5.1	5.5	7.4	6.6	7.1
19	6.7	5.8	6.4	8.9	3.1	5.8	5.5	4.2	4.9	7.0	6.2	6.7
20	7.2	5.5	6.2	9.3	3.4	5.8	4.2	2.6	3.5	6.8	6.0	6.6
21	6.6	5.2	5.9	8.9	3.8	6.1	3.8	2.4	3.1	6.5	5.9	6.2
22	7.7	5.0	6.3	8.9	4.2	6.1	3.0	2.3	---	7.1	6.2	6.7
23	7.6	5.6	6.6	6.9	4.2	5.3	---	---	---	8.2	7.2	7.7
24	9.0	7.4	8.2	4.7	3.1	3.9	---	---	---	8.6	7.6	8.1
25	8.6	8.1	8.3	5.4	3.7	4.4	---	---	---	9.0	8.0	8.5
26	8.5	7.1	8.0	6.1	4.0	5.0	---	---	---	8.9	7.8	8.4
27	8.1	6.7	7.4	6.5	3.9	4.9	---	---	---	8.6	7.2	7.9
28	8.2	6.7	7.4	6.3	3.9	4.9	---	---	---	7.2	6.7	7.0
29	8.4	7.1	7.8	7.3	3.9	5.4	---	---	---	7.8	7.1	7.4
30	8.7	7.4	7.9	6.5	3.9	5.2	---	---	---	8.5	7.7	8.1
31	---	---	---	7.0	3.7	5.5	---	---	---	---	---	---
MONTH	9.0	3.4	---	11.5	2.1	5.8	---	---	---	---	---	---

PH (UNITS) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.2	6.8	6.7	6.8	7.2	7.2	7.2	---	---	---
2	7.2	7.1	7.1	6.8	6.7	6.8	7.3	7.2	7.2	---	---	---
3	7.1	7.0	7.1	6.8	6.8	6.8	7.3	7.2	7.3	---	---	---
4	7.1	7.0	7.1	6.8	6.8	6.8	7.3	7.2	7.3	---	---	---
5	7.1	7.0	7.1	6.8	6.8	6.8	7.3	7.2	7.2	---	---	---
6	7.2	7.1	7.2	6.9	6.7	6.8	7.4	7.1	7.3	---	---	---
7	7.2	7.2	7.2	6.9	6.9	6.9	7.6	7.6	---	---	---	---
8	7.3	7.2	7.2	6.9	6.8	6.9	---	---	---	---	---	---
9	7.2	7.1	7.2	6.9	6.8	6.8	---	---	---	---	---	---
10	7.2	7.1	7.2	6.8	6.8	6.8	---	---	---	---	---	---
11	7.2	7.1	7.2	6.8	6.8	6.8	---	---	---	---	---	---
12	7.3	7.2	7.2	6.8	6.7	6.8	---	---	---	---	---	---
13	7.3	7.2	7.2	6.8	6.7	6.7	---	---	---	---	---	---
14	7.3	7.2	7.3	6.7	6.7	6.7	---	---	---	---	---	---
15	7.4	7.2	7.3	7.3	6.6	7.0	---	---	---	---	---	---
16	7.3	7.2	7.3	7.2	7.2	7.2	---	---	---	---	---	---
17	7.3	7.2	7.3	7.3	7.2	7.2	---	---	---	---	---	---
18	7.3	7.2	7.3	7.3	7.3	7.3	---	---	---	---	---	---
19	7.3	7.2	7.2	7.4	7.3	7.3	---	---	---	---	---	---
20	7.4	7.2	7.5	7.3	7.3	7.3	---	---	---	---	---	---
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
31	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---

01454720 LEHIGH RIVER AT EASTON,PA.--Continued

PH (UNITS) ; WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.3	7.2	---	7.1	6.6	6.9	---	---	---
2	---	---	---	7.2	7.1	7.1	7.2	6.3	6.9	---	---	---
3	---	---	---	7.1	7.1	7.1	7.1	6.6	6.9	---	---	---
4	---	---	---	7.2	7.1	7.2	7.9	7.1	7.3	---	---	---
5	---	---	---	7.3	7.1	7.2	7.5	7.1	---	---	---	---
6	---	---	---	7.3	7.0	7.2	---	---	---	---	---	---
7	---	---	---	7.1	7.0	7.1	---	---	---	---	---	---
8	---	---	---	7.0	6.9	7.0	---	---	---	---	---	---
9	---	---	---	7.5	6.9	7.1	---	---	---	---	---	---
10	---	---	---	7.3	6.9	7.0	---	---	---	---	---	---
11	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
12	---	---	---	6.9	6.8	6.8	---	---	---	---	---	---
13	---	---	---	7.0	6.6	6.8	---	---	---	---	---	---
14	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
15	---	---	---	7.0	6.9	7.0	---	---	---	---	---	---
16	---	---	---	7.0	6.9	6.9	---	---	---	---	---	---
17	---	---	---	6.9	6.9	6.9	---	---	---	---	---	---
18	---	---	---	6.9	6.9	6.9	---	---	---	---	---	---
19	---	---	---	6.9	6.8	6.9	---	---	---	---	---	---
20	---	---	---	6.9	6.8	6.9	---	---	---	---	---	---
21	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
22	---	---	---	6.9	6.7	6.8	---	---	---	---	---	---
23	---	---	---	6.9	6.8	6.8	---	---	---	---	---	---
24	---	---	---	6.9	6.8	6.9	---	---	---	---	---	---
25	---	---	---	7.1	6.9	7.0	---	---	---	---	---	---
26	---	---	---	7.6	7.1	7.3	---	---	---	---	---	---
27	---	---	---	7.2	7.0	7.1	---	---	---	---	---	---
28	---	---	---	7.2	7.1	7.2	---	---	---	---	---	---
29	---	---	---	7.5	6.9	7.1	---	---	---	---	---	---
30	---	---	---	7.6	7.5	7.5	---	---	---	---	---	---
31	---	---	---	7.5	6.8	7.2	---	---	---	---	---	---
MONTH	---	---	---	7.6	6.6	7.0	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.4	6.3	6.4
2	---	---	---	---	---	---	---	---	---	6.5	6.3	6.5
3	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
4	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
5	---	---	---	---	---	---	---	---	---	6.5	6.4	6.4
6	---	---	---	---	---	---	---	---	---	6.5	6.2	6.4
7	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
8	---	---	---	---	---	---	---	---	---	6.5	6.4	6.5
9	---	---	---	---	---	---	---	---	---	6.6	6.3	6.5
10	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
11	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
12	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
13	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	6.6	---	---	---	---
31	---	---	---	---	---	---	6.8	6.3	6.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	18.0	11.5	11.0	11.5	9.0	8.0	8.5	5.0	4.5	4.5
2	18.5	17.0	17.5	11.5	10.5	11.0	8.0	6.5	7.0	4.5	4.0	4.0
3	18.5	17.0	17.5	11.5	11.0	11.0	6.5	6.0	6.5	4.0	3.5	3.5
4	19.5	18.0	18.5	11.0	10.0	10.5	7.0	6.5	6.5	4.0	3.5	3.5
5	20.0	19.0	19.5	10.5	9.5	10.0	10.5	8.0	9.0	4.0	3.5	3.5
6	19.5	18.5	19.0	9.5	8.5	9.0	10.5	9.5	10.0	4.0	3.5	3.5
7	19.0	18.0	18.5	9.0	8.0	8.5	9.5	7.0	8.0	4.5	4.0	4.0
8	18.5	17.0	18.0	8.5	7.0	8.0	7.0	6.5	6.5	4.0	3.0	3.5
9	18.5	18.0	18.5	8.5	8.0	8.0	6.5	6.0	6.0	2.0	1.0	1.0
10	19.5	18.5	19.0	8.0	6.5	7.0	7.0	6.0	6.5	1.5	1.0	1.0
11	19.0	18.0	18.5	7.0	6.0	6.5	6.5	6.0	6.5	3.0	1.5	2.5
12	18.5	17.0	17.5	7.0	6.0	6.5	5.5	5.0	5.5	3.5	3.0	3.0
13	18.5	17.0	18.0	9.0	7.0	8.0	5.0	5.0	5.0	3.0	2.0	2.5
14	18.5	18.0	18.0	10.5	9.0	10.0	5.5	5.0	5.5	2.0	1.0	1.0
15	18.0	16.5	17.0	12.0	10.5	11.0	5.5	5.5	5.5	3.0	1.5	2.0
16	18.0	16.5	17.0	13.0	11.5	12.5	5.0	4.0	4.5	4.0	3.0	3.5
17	16.5	15.5	15.5	11.5	10.0	10.5	3.5	1.5	2.5	4.5	4.0	4.0
18	15.5	14.5	14.5	10.0	9.0	9.0	1.5	0.5	0.5	4.0	3.0	3.5
19	14.5	13.5	14.0	9.0	8.5	9.0	1.5	0.5	1.0	3.5	3.0	3.0
20	15.0	13.5	14.5	9.0	8.0	8.5	3.5	1.5	2.0	3.0	3.0	3.0
21	15.5	14.0	14.5	9.0	8.5	8.5	5.5	4.0	4.0	4.0	3.0	3.5
22	16.0	14.0	15.0	11.0	9.0	10.0	5.5	3.5	3.5	4.5	3.5	4.0
23	16.0	14.5	15.0	10.5	10.0	10.0	4.5	3.5	4.0	5.0	4.5	4.5
24	16.5	14.5	15.5	10.5	9.5	10.0	5.5	4.0	4.5	5.0	5.0	5.0
25	16.0	14.5	15.5	11.5	10.5	11.0	3.5	3.5	3.5	5.5	5.0	5.0
26	16.5	15.0	15.5	11.5	10.5	11.0	5.0	3.5	4.0	5.0	5.0	5.0
27	16.5	15.5	16.0	11.5	10.5	11.0	6.0	5.0	5.5	6.5	5.0	5.5
28	15.5	14.5	15.0	12.0	11.5	11.5	6.0	6.0	6.0	7.0	6.5	6.5
29	14.5	13.5	14.0	12.0	10.0	11.0	5.5	5.0	5.5	6.5	6.0	6.5
30	14.0	11.5	12.5	10.0	9.0	9.5	5.5	5.5	5.5	6.5	6.0	6.5
31	11.5	11.0	11.0	---	---	---	5.0	4.5	4.5	6.5	6.0	6.5
MONTH	20.0	11.0	16.5	13.0	6.0	9.5	10.5	0.5	5.5	7.0	1.0	4.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.5	5.5	6.0	5.5	5.5	6.0	4.5	5.0	19.5	19.0	19.0
2	5.5	3.5	4.5	6.0	5.5	6.0	8.0	6.0	6.5	18.5	17.0	18.0
3	3.5	2.0	2.5	6.0	5.5	5.5	9.5	7.0	8.0	16.5	14.5	15.5
4	3.0	2.0	2.0	8.0	6.0	6.5	11.5	9.5	11.0	15.0	14.0	14.5
5	2.0	1.5	1.5	9.5	8.0	9.0	11.5	10.5	11.0	14.5	14.0	14.5
6	1.5	0.5	1.0	9.5	8.5	9.0	10.5	8.0	9.5	14.0	14.0	14.0
7	3.0	1.5	2.0	10.0	9.0	9.5	8.5	7.0	8.0	13.5	13.0	13.5
8	3.0	2.0	2.0	10.0	9.0	9.5	9.0	8.5	8.5	13.5	13.0	13.0
9	2.0	1.5	1.5	9.0	6.5	8.0	8.5	6.5	7.0	14.0	13.5	14.0
10	2.0	1.5	2.0	6.5	6.0	6.5	7.0	5.5	6.5	14.5	14.0	14.0
11	3.0	2.0	2.5	6.5	6.0	6.5	9.0	6.5	7.5	15.5	14.0	14.5
12	3.5	2.0	3.0	6.5	5.5	6.0	9.0	9.0	---	16.0	15.5	15.5
13	4.5	3.5	4.0	6.0	5.0	5.5	---	---	---	15.5	13.5	14.0
14	5.5	4.5	5.0	5.0	4.0	4.5	---	---	---	15.0	12.0	13.5
15	5.5	4.5	5.0	6.0	4.5	5.0	---	---	---	18.5	15.0	16.0
16	4.5	4.0	4.5	6.5	6.0	6.0	---	---	---	19.5	18.0	18.5
17	4.5	4.0	4.0	6.5	5.5	6.0	---	---	---	20.5	19.0	19.5
18	4.5	4.0	4.0	5.5	4.5	5.0	13.5	11.5	---	20.5	19.5	20.0
19	5.0	4.0	4.5	6.5	5.0	5.5	13.5	12.0	12.5	20.5	19.5	19.5
20	5.5	5.0	5.5	7.0	6.0	6.5	12.0	11.0	11.5	19.5	18.5	19.0
21	5.5	4.5	5.0	7.0	6.5	6.5	13.5	11.0	12.0	19.0	18.5	18.5
22	8.0	5.5	6.5	6.5	5.0	5.5	14.5	13.5	14.0	19.5	19.0	19.0
23	8.0	5.5	6.0	7.0	5.5	6.0	15.5	14.5	15.0	20.5	20.0	20.5
24	5.0	4.0	4.0	8.5	6.5	7.5	15.0	13.0	14.0	20.5	20.0	20.0
25	4.5	4.0	4.0	8.0	6.5	6.5	13.0	11.5	12.0	20.0	19.5	19.5
26	4.0	3.5	4.0	6.5	5.5	6.0	13.5	11.5	12.5	19.0	18.5	18.5
27	4.0	3.5	4.0	7.0	6.0	6.5	14.5	13.5	14.0	18.5	16.5	17.5
28	5.5	4.0	4.5	8.0	6.5	7.0	15.5	14.5	15.0	18.5	18.0	18.5
29	---	---	---	8.0	5.5	6.5	17.0	15.5	16.5	17.0	16.5	17.0
30	---	---	---	9.5	6.5	8.0	19.0	18.0	18.5	19.0	17.0	18.0
31	---	---	---	6.5	6.0	6.0	---	---	---	19.5	18.5	19.0
MONTH	8.0	0.5	3.5	10.0	4.0	6.5	19.0	4.5	---	20.5	12.0	17.0

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	19.0	19.0	23.0	20.5	22.0	26.0	24.5	25.0	22.0	21.5	21.5
2	19.5	18.5	19.0	23.5	22.0	23.0	26.0	24.5	25.0	22.0	21.0	21.5
3	19.0	18.0	18.5	24.0	23.5	23.5	25.5	24.5	25.0	22.0	20.5	21.0
4	20.0	19.0	19.5	25.5	23.5	24.5	26.0	24.5	25.0	19.5	17.0	18.5
5	21.5	20.0	20.5	26.0	25.0	25.5	25.5	24.0	24.5	18.0	17.0	17.5
6	23.0	21.0	22.0	25.5	24.5	25.0	24.5	24.0	24.5	17.0	17.0	17.0
7	22.0	20.5	21.5	26.5	24.5	25.5	24.5	24.0	24.0	16.5	16.0	16.5
8	21.0	20.0	20.5	27.0	25.0	26.0	24.5	23.5	24.0	18.5	16.5	17.5
9	22.0	20.0	21.0	28.5	25.5	27.0	24.5	23.5	24.0	19.0	18.5	18.5
10	24.5	21.0	23.0	28.5	26.5	27.5	24.0	23.0	23.5	19.5	19.0	19.0
11	25.5	23.5	24.5	27.0	26.0	26.5	24.5	23.0	23.5	20.0	19.5	19.5
12	25.0	23.5	24.5	26.5	24.5	25.5	25.0	23.0	24.0	21.0	20.0	20.5
13	24.5	23.0	23.5	26.0	24.0	25.0	25.0	23.0	24.0	22.0	21.0	21.5
14	24.0	21.5	22.5	26.5	24.0	25.0	25.5	23.5	24.5	21.5	21.0	21.5
15	24.0	21.5	22.5	27.0	25.0	26.0	26.0	24.0	25.0	---	---	---
16	23.0	21.0	21.5	28.0	25.5	26.5	26.5	24.5	25.5	---	---	---
17	22.0	21.0	21.5	27.0	25.0	26.0	25.5	23.5	24.5	19.0	19.0	---
18	23.0	21.5	22.0	26.5	25.0	25.5	23.5	23.0	23.0	19.5	19.0	19.5
19	23.5	21.5	22.5	26.5	25.5	26.0	24.5	23.5	24.0	20.0	19.5	19.5
20	24.5	22.0	23.5	26.0	25.0	25.5	25.5	24.0	24.5	20.5	19.5	20.0
21	24.5	23.5	24.0	26.0	24.5	25.0	26.0	24.0	25.0	20.5	20.0	20.0
22	25.0	23.0	24.0	25.5	24.0	25.0	25.0	21.0	23.0	19.5	18.5	19.0
23	24.0	21.5	23.0	25.0	23.5	24.0	22.0	21.0	21.5	18.5	16.5	17.5
24	21.5	20.5	21.0	24.5	23.0	23.5	22.0	21.0	21.5	16.5	15.5	16.0
25	21.0	20.0	20.5	23.[illegible]	22.0	22.5	23.0	21.0	22.0	15.5	15.0	15.0
26	20.5	19.5	20.0	23.[illegible]	21.5	22.0	21.5	21.0	21.0	16.0	15.0	15.5
27	21.5	20.0	20.5	24.[illegible]	22.0	23.0	23.0	20.5	21.0	17.0	15.5	16.5
28	20.5	19.5	20.0	25.[illegible]	23.5	24.0	25.0	22.0	24.0	18.0	16.5	17.0
29	20.0	19.5	19.5	26.[illegible]	24.0	25.0	24.5	24.0	24.0	18.0	17.0	17.5
30	21.5	20.0	20.5	26.[illegible]	24.5	25.5	25.0	24.0	24.5	17.0	16.0	16.5
31	---	---	---	25.[illegible]	25.0	25.0	24.0	22.0	23.0	---	---	---
MONTH	25.5	18.0	21.5	28.[illegible]	20.5	25.0	26.5	20.5	24.0	22.0	15.0	18.5

01457500 DELAWARE RIVER AT RIEGELSVILLE, N.J. (RIEGELSVILLE, PA.)

LOCATION.--Lat 40°35'38", long 75°11'28", Warren County, at partial-record gaging station on left bank at suspension bridge 600 ft (183 m) upstream from Musconetcong River at Riegelsville.

DRAINAGE AREA.--6,328 mi^2 (16,390 km^2), including that of Musconetcong River.

PERIOD OF RECORD.--Chemical analyses: July 1969 to December 1973.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Discharge records include flow of Musconetcong River. Water-quality records at periods of base flow probably are influenced by inflow from Musconetcong River.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
25...	1000	117	2	195	7.5	13.0	2	9.0	1.6	3100	400
NOV.											
29...	1210	103	17	165	6.8	9.5	--	10.2	2.4	8200	1000
DEC.											
27...	1430	82	21	110	7.5	4.5	11	15.2	.6	4300	630

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
DEC.								
27...	1430	630	130	22	18	17	.1	.70

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
DEC.									
27...	.12	.29	.41	.07	.04	40	22	.1	5.0

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
DEC.								
27...	1.1	3.0	.00	0	1	0	8	6

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)
(International Hydrological Decade River and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, at gaging station. Water-quality recorder located at raw-water intake of the Trenton Water Department about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi^2 (17,560 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1974.
Water temperatures: October 1944 to September 1974.
Sediment records: September 1949 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 223 micromhos Aug. 17; minimum, 89 micromhos Dec. 22, 23.
Dissolved oxygen: Maximum, 17.3 mg/l July 9; minimum, 5.3 mg/l July 19.
pH: Maximum, 10.2 June 14, 15; minimum, 5.5 Jan. 27.
Water temperatures: Maximum, 32.0°C July 9, 10; minimum, freezing point Dec. 19, Feb. 6.

Period of record:
Specific conductance (1963-74): Maximum, 301 Aug. 24, 1967; minimum, 65 Mar. 12, 1964.
Dissolved oxygen (1962-74): Maximum, 17.3 mg/l July 9, 1971; minimum, 4.1 mg/l Sept. 12, 1971.
pH (1968-74): Maximum, 10.2 July 5, 6, 1971, June 14, 15, 1974; minimum, 5.3 June 22, 1972.
Water temperatures: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 370. Operated as part of the USGS-EPA surveillance network. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1779-X.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DEPTH (FT)	PERCENT OF TOTAL DEPTH	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
31...	1130	14920	3.0	50	3.5	16	6.2	6.2	3.5	45	0
NOV.											
27...	1310	5540	3.0	50	1.2	17	6.6	7.6	2.3	53	0
MAR.											
25...	1000	22980	7.0	50	3.6	11	3.3	4.3	1.0	24	0
APR.											
19...	0900	24980	7.0	50	3.0	14	3.6	3.5	1.2	27	0
MAY											
16...	1030	25800	6.0	50	3.5	11	3.0	4.1	1.0	31	0
JUNE											
26...	1100	6050	3.0	50	4.2	18	5.9	6.5	1.6	46	0
JULY											
29...	1000	4012	--	--	2.7	20	6.2	8.0	1.9	52	0
AUG.											
28...	1000	4272	--	--	3.6	21	8.0	6.5	2.2	54	0
SEP.											
03...	1030	104000	--	--	--	--	--	--	--	--	--
26...	1100	16590	--	--	2.1	18	6.0	7.0	1.0	46	--

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
31...	37	27	10	--	.3	1.5	--	.00	--	1.5	--
NOV.											
27...	43	25	11	--	.3	1.2	--	.04	--	1.2	--
MAR.											
25...	20	16	6.7	--	.1	.71	--	.02	--	.73	--
APR.											
19...	22	19	6.9	--	.3	.62	--	.01	--	.63	--
MAY											
16...	25	15	5.8	--	.1	.56	--	.03	--	.59	--
JUNE											
26...	38	26	9.0	--	.2	--	2.1	--	.07	--	2.2
JULY											
29...	43	28	11	--	.1	.93	--	.05	--	.98	--
AUG.											
28...	44	30	11	.2	.1	1.2	--	.04	--	1.2	--
SEP.											
03...	--	--	--	--	--	.76	.76	.02	.04	.78	.78
26...	38	22	9.1	--	.2	.71	--	.03	--	.76	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.											
31...	.09	--	--	--	--	--	--	.17	--	--	--
NOV.											
27...	.22	--	--	--	--	--	--	.12	--	--	.10
MAR.											
25...	--	--	--	--	.64	--	1.4	.05	--	--	--
APR.											
19...	.11	--	.16	--	.27	--	.90	.06	--	.03	--
MAY											
16...	.12	--	.34	--	.46	--	1.1	.08	--	.03	--
JUNE											
26...	.01	.03	--	.28	--	.31	--	.12	.08	.07	.07
JULY											
29...	.07	--	.20	--	.27	--	1.2	.14	--	.10	--
AUG.											
28...	.10	--	.33	--	.43	--	1.6	.11	--	.08	--
SEP.											
03...	.24	.20	.57	.18	.81	.38	1.6	.20	.08	.06	.06
26...	.15	--	.18	--	.33	--	1.1	.09	--	.06	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.										
31...	--	95	65	29	181	9.0	12.0	--	6	9.3
NOV.										
27...	117	98	70	26	189	7.1	9.9	--	2	12.2
MAR.										
25...	69	58	41	21	110	7.6	4.6	--	--	11.2
APR.										
19...	69	65	50	20	110	7.5	11.0	7	5	10.6
MAY										
16...	66	59	40	14	102	7.0	20.0	4	7	9.4
JUNE										
26...	109	102	69	32	175	9.1	20.5	3	3	8.0
JULY										
29...	117	104	75	33	196	9.2	25.5	--	3	8.6
AUG.										
28...	144	118	68	30	210	8.2	25.0	1	3	8.4
SEP.										
03...	--	--	--	--	151	7.7	19.0	--	--	--
26...	101	89	70	32	172	8.5	17.5	--	2	10.2

DATE	BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT.										
31...	2.4	.1	900	--	--	10400	5000	9000	5.0	--
NOV.										
27...	[illegible]	0.7	6900	9.6	--	1610	190	294	--	--
MAR.										
25...	1.4	1.0	--	3.3	--	540	80	140	6.0	--
APR.										
19...	1.0	1.4	1300	.0	.0	900	1000	32	--	--
MAY										
16...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1100	280	28	28	--
JUNE										
26...	[illegible]	<1	[illegible]	66	[illegible]	600	120	120	[illegible]	--
JULY										
29...	[illegible]	<1	11000	--	--	[illegible]	18	600	[illegible]	--
AUG.										
28...	1.0	.7	27000	--	--	100	60	510	3.3	--
SEP.										
03...	--	--	--	--	--	--	--	--	18	7.0
26...	[illegible]	[illegible]	[illegible]	--	--	[illegible]	[illegible]	[illegible]	5.4	--

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT. 31...	1130	--	--	--	--	--	--	--	--	--	--	--
NOV. 27...	1310	250	70	50	--	30	1	--	1	1	--	1
MAR. 25...	1000	290	60	50	--	30	2	--	--	2	--	0
APR. 19...	0900	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	1030	230	60	60	50	10	4	2	2	1	1	0
JUNE 26...	1100	410	50	70	60	10	<1	<0	<1	0	0	0
AUG. 28...	1000	200	100	40	20	20	1	1	0	0	0	0
SEP. 03...	1030	--	--	--	--	--	3	--	2	2	--	0
26...	1100	350	50	60	50	10	<1	0	2	1	0	<1

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--	0
NOV. 27...	<10	--	<10	3	--	2	10	--	0	5	--	1
MAR. 25...	10	--	0	2	--	0	10	--	0	3	--	2
APR. 19...	--	--	--	--	--	--	--	--	--	--	--	5
MAY 16...	<10	<0	<10	3	2	1	10	0	10	6	1	5
JUNE 26...	<10	<10	0	0	0	0	80	60	20	26	26	0
AUG. 28...	<10	<10	0	0	0	0	20	10	10	11	8	3
SEP. 03...	<10	--	0	3	--	0	20	--	20	43	--	2
26...	0	0	--	2	2	0	40	0	10	15	9	3

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--
NOV. 27...	<.5	--	<.5	--	--	--	--	--	110	--	40
MAR. 25...	<.5	--	<.5	--	--	2	--	--	60	--	60
APR. 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	<.5	<.0	<.5	--	--	0	0	0	40	20	20
JUNE 26...	<.5	<.0	<.5	--	--	2	1	1	70	50	20
AUG. 28...	<.5	.0	<.5	--	--	<2	0	<2	50	20	30
SEP. 03...	1.0	--	<.5	11	5	--	--	--	190	--	20
26...	.5	.0	<.5	--	5	4	1	3	70	50	20

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)
SEP. 26...	1100	60	27	0	0	20	0	0

DATE	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
SEP. 26...	2	0	0	78	0	2	<.7	<1

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
JUNE 26...	1100	2.0	19	125	250	12	.4
26...	1200	.8	23	249	250	11	.4

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)
MAY 16...	1030	.00	.0	.0	0	.00	.4	.00	.1	.00	.6	.00

DATE	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)
MAY 16...	.00	.0	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 16...	.00	.00	.00	.0	0	0	0	.00	.01	.00	.00

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
MAR.									
25...	1000	10	.7	.5	2.7	1.0	2.2	.9	.03
AUG.									
28...	1000	9	2.2	<.4	3.9	.8	3.1	.7	.03

DATE	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M
MAY		
23-31	2.3	3.8
JUNE		
01-30	2.3	3.8
JULY		
01-05	2.3	3.8

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	150	136	140	---	---	---
2	---	---	---	---	---	---	136	127	135	---	---	---
3	---	---	---	---	---	---	141	135	138	---	---	---
4	191	184	---	---	---	---	146	141	142	---	---	---
5	187	180	183	---	---	---	149	142	147	---	---	---
6	183	174	180	165	163	---	---	---	---	---	---	---
7	189	172	180	170	159	166	---	---	---	---	---	---
8	173	150	165	176	170	174	127	113	117	---	---	---
9	168	153	163	181	176	179	119	113	116	---	---	---
10	179	167	172	184	179	182	128	111	119	---	---	---
11	192	175	186	180	175	177	118	96	103	---	---	---
12	184	165	179	177	171	174	102	97	100	---	---	---
13	183	163	178	172	169	171	107	102	105	---	---	---
14	195	176	185	172	169	171	120	108	114	---	---	---
15	208	196	202	176	173	175	121	118	120	---	---	---
16	207	187	196	176	174	175	119	116	117	---	---	---
17	187	175	181	176	173	175	122	116	118	---	---	---
18	190	184	186	178	173	176	128	116	123	163	160	---
19	195	182	192	175	173	174	136	127	131	168	158	163
20	198	179	191	177	170	173	161	137	143	180	168	173
21	183	150	173	---	---	---	149	104	122	183	166	174
22	177	145	157	178	174	176	129	89	99	182	150	163
23	177	163	173	180	176	178	97	89	93	181	156	163
24	173	160	168	186	179	181	114	97	105	158	142	148
25	174	158	168	190	178	186	113	106	109	142	138	139
26	169	154	162	195	185	192	110	108	---	139	136	137
27	187	160	165	193	181	187	---	---	---	139	135	138
28	196	184	191	182	167	175	---	---	---	140	137	139
29	200	191	---	173	162	165	---	---	---	136	114	120
30	---	---	---	---	---	---	---	---	---	114	102	107
31	---	---	---	---	---	---	---	---	---	108	102	105
MONTH	208	145	---	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	111	108	109	130	123	128	144	141	143	172	160	166
2	116	110	113	138	128	133	141	130	138	172	157	168
3	123	115	118	136	131	133	141	120	130	174	152	162
4	126	120	123	135	128	133	125	112	121	159	152	155
5	132	127	128	138	131	134	124	111	117	161	138	150
6	137	132	134	137	103	129	112	101	108	168	144	151
7	147	135	142	135	112	122	101	97	99	---	---	---
8	151	143	148	114	111	112	103	99	101	---	---	---
9	154	146	148	124	107	116	114	103	108	---	---	---
10	157	149	154	123	119	120	115	111	113	145	136	---
11	162	156	158	123	117	121	116	107	112	154	139	145
12	166	153	159	125	114	119	122	112	118	149	138	146
13	161	151	158	127	115	121	122	108	117	143	106	127
14	163	157	160	126	119	124	129	117	122	133	93	109
15	165	154	161	131	126	129	122	113	118	96	92	93
16	161	150	156	140	129	135	123	105	113	101	96	99
17	160	155	157	140	135	138	106	103	104	110	101	106
18	163	158	160	140	121	133	111	104	107	117	110	113
19	166	160	162	120	110	119	118	99	112	119	112	116
20	169	163	166	122	111	120	122	109	117	123	115	120
21	168	162	165	125	114	120	124	107	118	131	110	122
22	162	159	161	133	114	125	131	117	121	138	122	129
23	164	158	160	127	113	119	133	118	126	140	123	133
24	152	104	123	117	106	113	142	124	138	146	130	142
25	106	101	103	118	108	115	148	142	145	148	136	144
26	113	107	110	127	112	117	148	147	148	148	146	147
27	118	111	114	121	107	115	150	147	149	151	142	147
28	123	117	119	127	117	123	153	145	150	155	142	149
29	---	---	---	126	108	120	156	151	153	159	136	147
30	---	---	---	145	120	129	158	156	158	165	158	160
31	---	---	---	143	127	135	---	---	---	162	145	---
MONTH	169	101	142	145	103	124	158	97	124	174	92	136

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	144	134	---	180	159	171	---	---	---	---	---	---
2	186	135	---	170	160	164	---	---	---	---	---	---
3	181	130	156	---	---	---	---	---	---	152	151	---
4	133	122	126	---	---	---	---	---	---	152	150	150
5	126	120	---	---	---	---	---	---	---	151	151	151
6	135	121	---	173	154	162	---	---	---	---	---	---
7	139	121	---	177	160	171	---	---	---	---	---	---
8	---	---	---	179	172	176	---	---	---	---	---	---
9	---	---	---	189	178	182	---	---	---	---	---	---
10	---	---	---	190	185	---	---	---	---	---	---	---
11	174	153	---	---	---	---	---	---	---	---	---	---
12	175	163	170	185	131	158	---	---	---	---	---	---
13	171	163	---	---	---	---	---	---	---	---	---	---
14	177	167	172	---	---	---	---	---	---	---	---	---
15	183	173	178	---	---	---	222	213	219	---	---	---
16	183	172	---	---	---	---	222	220	221	---	---	---
17	189	171	---	---	---	---	223	217	221	---	---	---
18	181	163	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	177	174	176	---	---	---	---	---	---	---	---	---
27	179	176	177	---	---	---	---	---	---	---	---	---
28	187	180	184	---	---	---	---	---	---	---	---	---
29	189	186	187	---	---	---	---	---	---	---	---	---
30	188	178	185	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.3	7.5	8.7	---	---	---	10.4	9.4	9.9	---	---	---
2	9.6	7.6	8.4	---	---	---	11.4	10.1	10.7	---	---	---
3	9.3	7.0	8.0	---	---	---	12.0	10.8	11.3	---	---	---
4	10.2	7.7	8.9	---	---	---	12.1	10.9	11.4	---	---	---
5	9.9	7.2	8.3	---	---	---	11.1	10.2	10.7	---	---	---
6	11.1	7.4	9.0	---	---	---	12.9	10.1	10.9	---	---	---
7	10.2	7.9	8.9	---	---	---	12.3	10.0	10.5	---	---	---
8	11.4	7.8	9.4	12.1	10.9	11.4	10.6	9.9	10.2	---	---	---
9	12.2	7.9	9.7	12.0	10.8	11.2	10.4	9.8	10.1	---	---	---
10	11.6	7.9	9.5	12.5	11.0	11.6	10.8	9.6	10.3	---	---	---
11	11.5	7.7	9.3	12.9	11.5	12.0	12.8	10.9	11.8	---	---	---
12	11.4	7.8	9.4	13.0	11.6	12.2	13.1	11.8	12.6	---	---	---
13	11.6	7.7	9.3	13.1	11.7	12.2	13.8	12.7	13.0	---	---	---
14	11.3	7.5	9.2	13.0	11.2	11.9	14.7	12.2	13.3	---	---	---
15	11.0	7.8	9.0	13.1	10.8	11.7	13.9	12.8	13.3	---	---	---
16	---	---	---	11.7	10.3	10.8	---	---	---	---	---	---
17	---	---	---	12.6	10.2	11.3	---	---	---	---	---	---
18	---	---	---	13.2	11.0	11.9	15.2	14.0	14.6	14.4	14.2	---
19	---	---	---	13.5	11.0	12.0	15.4	15.0	15.2	14.6	14.5	14.5
20	---	---	---	13.9	11.4	12.5	15.2	14.5	15.0	14.5	14.4	14.5
21	---	---	---	14.0	11.7	12.5	14.7	13.0	14.3	14.4	14.2	14.3
22	---	---	---	14.5	10.9	12.3	15.4	14.3	14.9	14.4	14.0	14.2
23	---	---	---	14.6	10.8	12.2	15.4	15.2	15.3	14.3	14.0	14.2
24	---	---	---	13.8	10.4	11.7	15.3	15.2	15.2	14.2	13.3	13.6
25	---	---	---	14.2	9.8	11.4	15.5	15.3	15.4	13.6	13.4	13.5
26	---	---	---	12.3	9.6	10.6	15.5	15.5	---	13.5	13.0	13.3
27	---	---	---	10.6	9.3	9.9	---	---	---	13.0	11.8	12.5
28	---	---	---	10.5	8.9	9.5	---	---	---	13.2	12.4	12.8
29	---	---	---	10.2	8.7	9.3	---	---	---	13.3	12.9	13.0
30	---	---	---	9.9	9.0	9.4	---	---	---	13.5	12.9	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.3	12.9	13.1	12.9	11.7	12.2	12.9	8.2	10.3
2	---	---	---	13.2	12.7	13.0	13.0	12.0	12.5	13.1	7.2	9.9
3	---	---	---	13.2	12.6	12.9	13.1	11.9	12.5	10.2	8.8	9.3
4	---	---	---	13.5	12.6	13.0	12.8	11.0	11.7	12.4	8.6	10.5
5	---	---	---	13.0	11.1	12.2	11.2	10.7	10.9	12.7	9.4	11.0
6	---	---	---	12.6	11.2	11.9	11.1	10.7	10.9	11.6	9.7	10.5
7	---	---	---	13.0	11.7	12.2	11.5	10.6	11.2	13.5	9.6	11.2
8	---	---	---	12.9	11.9	12.2	11.9	11.1	11.6	14.5	10.7	12.5
9	---	---	---	12.9	12.1	12.4	11.7	11.2	11.6	13.7	10.4	12.3
10	---	---	---	13.0	12.4	12.6	12.3	11.1	11.8	11.6	10.6	11.2
11	---	---	---	13.4	12.8	13.0	12.8	12.1	12.5	13.0	10.9	11.8
12	---	---	---	13.8	12.4	13.0	12.7	11.9	12.4	12.3	10.6	11.3
13	---	---	---	14.5	13.0	13.7	12.1	11.6	11.9	10.7	9.9	10.3
14	---	---	---	14.2	12.9	13.5	11.8	11.3	11.6	11.8	9.5	10.6
15	---	---	---	14.4	12.6	13.6	12.0	11.1	11.5	10.3	9.7	10.0
16	---	---	---	13.3	12.2	12.8	12.0	11.5	11.8	10.0	8.9	9.6
17	---	---	---	13.2	12.2	12.7	12.1	11.7	11.9	9.4	8.7	9.0
18	---	---	---	13.4	12.3	12.7	12.2	11.5	11.9	9.2	8.2	8.6
19	---	---	---	13.3	12.4	12.7	11.7	11.1	11.4	9.1	8.2	8.7
20	---	---	---	13.2	12.2	12.7	12.1	11.1	11.6	9.8	8.4	9.1
21	---	---	---	13.4	11.4	12.2	12.1	11.1	11.6	10.0	8.8	9.3
22	12.9	12.4	---	12.2	11.6	11.9	11.5	10.7	11.1	10.6	8.0	9.5
23	12.4	12.1	12.3	13.7	11.9	13.0	10.8	9.7	10.2	9.9	8.4	9.1
24	13.5	12.0	12.8	13.2	12.3	12.8	10.3	9.3	9.8	10.0	8.3	9.0
25	14.1	13.0	13.4	14.0	13.1	13.5	12.0	9.5	10.9	9.7	7.8	8.8
26	14.3	12.8	13.6	13.6	11.9	12.9	12.8	11.2	11.9	9.0	6.9	8.2
27	14.4	13.2	13.7	12.0	11.4	11.7	13.3	10.8	12.0	9.1	6.7	7.9
28	13.8	13.4	13.6	12.6	11.4	12.0	13.1	10.6	11.7	10.8	8.4	9.6
29	---	---	---	12.2	11.2	11.6	12.7	10.1	11.3	10.3	9.0	9.5
30	---	---	---	12.5	11.2	11.9	12.5	9.3	10.5	11.5	8.9	10.0
31	---	---	---	12.5	11.6	12.2	---	---	---	11.2	8.7	9.8
MONTH	---	---	---	14.5	11.1	12.6	13.3	9.3	11.5	14.5	6.7	9.9

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	8.3	9.3	11.3	8.4	9.7	11.6	7.1	9.1	---	---	---
2	8.8	7.6	8.4	11.8	9.5	10.4	12.0	8.6	10.1	---	---	---
3	9.5	7.6	8.5	12.9	8.8	10.8	10.7	9.0	9.8	---	---	---
4	10.0	8.0	8.8	13.6	8.9	11.1	12.9	8.9	10.5	---	---	---
5	10.4	6.8	8.7	12.4	7.1	9.9	13.4	9.2	11.1	---	---	---
6	11.1	7.3	9.1	12.6	6.4	9.4	11.5	8.1	10.0	---	---	---
7	8.4	6.8	7.5	15.7	9.9	12.6	9.1	6.4	7.7	---	---	---
8	---	---	---	16.2	10.5	13.4	11.8	6.8	9.2	---	---	---
9	---	---	---	17.3	10.8	13.8	12.6	7.0	8.9	---	---	---
10	15.0	10.6	13.4	16.1	11.0	13.4	13.1	6.5	9.3	---	---	---
11	15.2	8.4	11.5	13.9	10.2	---	10.9	7.4	8.4	---	---	---
12	12.4	8.1	10.1	12.4	7.2	9.9	---	---	---	---	---	---
13	14.3	8.2	11.0	13.4	7.4	9.9	11.7	7.7	10.2	---	---	---
14	15.4	8.5	12.0	13.8	6.3	9.6	12.6	8.1	10.0	---	---	---
15	15.7	9.0	12.3	---	---	---	13.6	8.3	---	---	---	---
16	13.8	8.9	11.0	13.7	10.1	12.7	11.2	8.2	---	---	---	---
17	9.8	6.5	8.5	14.2	7.6	10.7	---	---	---	---	---	---
18	7.0	6.0	6.5	13.3	7.4	9.8	---	---	---	---	---	---
19	7.0	5.9	6.5	13.5	5.3	8.9	---	---	---	---	---	---
20	7.2	6.3	6.8	12.5	7.2	9.7	---	---	---	12.3	9.2	---
21	8.7	7.1	7.7	13.7	7.5	10.4	---	---	---	11.3	8.6	9.1
22	10.0	7.7	8.7	12.7	8.1	10.4	---	---	---	12.2	9.0	10.5
23	8.9	8.1	8.4	9.4	5.4	7.7	---	---	---	12.9	9.7	11.1
24	9.6	8.6	---	7.1	5.8	6.1	---	---	---	13.3	10.6	11.7
25	---	---	---	8.6	5.6	7.0	---	---	---	12.9	10.7	11.7
26	11.5	8.1	---	8.3	5.4	6.8	---	---	---	13.3	11.0	11.8
27	11.1	6.7	9.4	8.3	5.5	6.6	---	---	---	13.4	10.5	11.9
28	8.5	7.0	7.7	8.4	5.5	6.7	---	---	---	13.3	10.8	11.9
29	9.9	7.7	8.7	9.8	6.0	7.5	---	---	---	10.7	9.6	10.1
30	10.1	8.1	8.9	11.8	6.8	8.9	---	---	---	10.5	9.6	10.0
31	---	---	---	9.8	7.3	7.7	---	---	---	---	---	---
MONTH	15.7	5.9	9.2	17.3	5.3	9.7	---	---	---	---	---	---

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	7.5	8.1	---	---	---	---	---	---	---	---	---
2	8.3	6.9	7.6	---	---	---	---	---	---	---	---	---
3	8.2	6.8	7.3	---	---	---	---	---	---	---	---	---
4	7.8	7.0	7.4	---	---	---	---	---	---	---	---	---
5	8.8	7.0	7.7	---	---	---	---	---	---	---	---	---
6	9.3	7.6	8.3	7.9	7.4	---	7.4	6.9	---	---	---	---
7	8.8	7.7	8.2	7.9	7.4	7.6	7.3	6.8	7.0	---	---	---
8	9.4	7.6	8.4	8.0	7.4	7.6	7.1	6.7	7.0	---	---	---
9	9.6	7.6	8.5	7.9	7.3	7.5	7.2	6.8	7.0	---	---	---
10	9.5	7.7	8.6	7.9	7.4	7.6	7.7	6.8	7.0	---	---	---
11	9.5	7.9	8.6	8.1	7.4	7.6	7.0	6.6	6.8	---	---	---
12	9.7	7.8	8.7	8.1	7.4	7.7	6.8	6.2	6.6	---	---	---
13	9.6	7.8	8.6	8.3	7.5	7.7	6.7	6.2	6.6	---	---	---
14	9.8	7.6	8.7	8.6	7.3	7.7	7.9	6.2	6.6	---	---	---
15	9.7	8.0	8.8	8.2	7.2	7.5	7.2	6.7	6.9	---	---	---
16	9.7	8.0	8.8	8.2	7.1	7.5	7.3	6.6	6.8	---	---	---
17	9.5	8.0	8.7	8.4	7.3	7.7	7.4	6.9	7.2	---	---	---
18	9.1	7.7	8.3	8.5	7.4	7.8	7.4	7.0	7.2	7.4	7.0	---
19	9.5	7.6	8.5	8.8	7.4	7.9	7.5	7.4	7.4	7.4	7.3	7.4
20	9.5	7.9	8.6	8.9	7.5	8.1	7.4	7.2	---	7.5	7.4	7.5
21	9.4	7.8	8.5	8.0	7.6	---	---	---	---	7.5	6.9	7.2
22	9.6	7.8	8.6	---	---	---	---	---	---	7.2	7.0	7.1
23	9.7	7.9	8.7	---	---	---	---	---	---	7.2	7.0	7.1
24	9.7	7.8	8.7	---	---	---	---	---	---	7.3	7.0	7.2
25	9.5	7.7	8.4	---	---	---	---	---	---	7.3	7.1	7.2
26	9.3	7.6	8.4	---	---	---	---	---	---	7.2	7.1	7.1
27	9.5	7.3	8.3	---	---	---	---	---	---	7.1	5.5	6.5
28	9.2	7.7	8.4	---	---	---	---	---	---	6.7	6.2	6.5
29	8.2	6.4	---	---	---	---	---	---	---	6.9	6.5	6.7
30	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
31	---	---	---	---	---	---	---	---	---	7.2	6.7	6.9
MONTH	9.8	6.4	8.4	---	---	---	---	---	---	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.2	7.4	7.4	7.2	7.3	7.4	7.1	7.2	9.8	7.1	8.8
2	7.4	7.2	7.4	7.4	7.2	7.3	7.2	7.0	7.1	9.9	8.7	9.4
3	7.3	7.2	7.2	7.3	7.0	7.2	7.1	7.0	---	9.2	7.6	8.3
4	7.3	7.2	7.3	7.2	6.7	7.0	---	---	---	9.7	7.5	8.7
5	7.5	7.3	7.4	8.3	6.7	---	---	---	---	9.7	8.2	9.0
6	7.4	7.3	7.4	---	---	---	---	---	---	9.2	8.0	8.7
7	7.4	7.3	7.3	---	---	---	7.5	6.7	7.1	8.7	7.8	8.3
8	7.4	7.3	7.4	---	---	---	7.4	7.1	7.2	8.9	7.4	8.2
9	7.5	7.3	7.4	---	---	---	7.6	7.2	7.3	8.7	6.6	7.9
10	7.6	7.4	7.5	---	---	---	7.5	7.3	7.4	6.7	6.1	6.3
11	7.6	7.5	7.5	---	---	---	7.8	7.4	7.6	7.8	6.8	7.3
12	7.6	7.5	7.5	---	---	---	7.7	7.1	---	7.2	6.6	6.9
13	7.6	7.4	7.5	7.7	7.5	---	---	---	---	6.9	6.5	6.7
14	7.6	7.4	7.5	7.7	7.4	7.6	---	---	---	6.9	6.3	6.6
15	7.8	7.5	7.6	7.8	7.4	7.6	---	---	---	6.6	5.8	6.3
16	7.7	7.6	7.7	7.6	7.0	7.3	7.9	7.5	7.8	7.3	5.8	6.7
17	7.8	7.6	7.7	7.6	7.0	7.3	7.9	7.6	7.8	7.5	5.7	6.8
18	7.8	7.7	7.8	7.6	7.4	7.5	8.2	7.6	7.9	7.3	5.8	6.8
19	7.7	7.3	7.6	7.6	7.3	7.4	8.0	7.7	7.9	7.1	6.6	6.9
20	7.6	7.1	7.3	7.6	7.2	7.4	8.1	7.6	7.9	7.3	6.8	7.0
21	7.6	7.4	7.5	7.4	7.0	7.2	8.2	7.9	8.0	7.5	6.8	7.1
22	7.4	6.9	7.1	7.3	7.0	7.1	8.0	7.7	---	8.3	6.7	7.5
23	7.5	7.3	7.4	7.3	6.9	7.2	---	---	---	8.0	7.0	7.6
24	7.3	7.0	7.2	7.3	6.8	7.0	8.0	7.0	7.6	9.0	6.9	8.0
25	7.1	6.9	7.0	7.7	7.3	7.4	8.3	7.7	8.0	8.3	7.0	7.8
26	7.3	7.1	7.2	7.5	7.3	7.4	8.4	7.9	8.2	8.4	7.5	7.9
27	7.4	7.2	7.3	7.6	7.1	7.4	8.5	8.0	8.3	8.2	7.6	7.9
28	7.4	7.3	7.4	7.7	7.2	7.5	8.4	7.6	8.1	8.7	7.5	8.1
29	---	---	---	7.5	7.3	7.4	8.7	7.3	---	8.2	7.6	7.8
30	---	---	---	7.4	7.1	7.3	9.1	7.7	8.5	8.8	7.6	8.2
31	---	---	---	7.3	6.9	7.0	---	---	---	8.8	7.8	8.3
MONTH	7.8	6.9	7.4	---	---	---	---	---	---	9.9	5.7	7.7

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	6.5	7.0	9.3	7.6	8.5	7.4	6.6	6.8	---	---	---
2	7.8	6.6	7.2	9.1	7.8	8.3	7.7	6.2	6.9	---	---	---
3	7.8	6.4	7.1	8.7	7.7	8.2	7.1	6.0	6.6	---	---	---
4	8.4	7.1	7.7	8.4	7.5	7.9	8.2	6.8	7.3	7.5	7.2	7.3
5	9.1	7.4	8.2	8.5	7.4	7.9	8.8	7.1	7.9	7.5	7.3	7.4
6	9.5	7.9	8.7	8.6	8.2	8.3	8.5	7.7	8.0	7.4	7.4	7.4
7	8.8	8.3	---	8.5	8.0	8.3	8.7	7.6	8.0	7.5	7.4	7.4
8	---	---	---	9.0	7.7	8.4	9.0	7.8	8.4	7.6	7.4	7.5
9	---	---	---	9.3	8.1	8.5	9.0	7.1	8.1	7.6	7.4	7.5
10	9.6	8.9	---	9.1	7.9	8.6	8.9	7.2	8.0	7.6	7.2	7.4
11	9.9	8.7	9.3	---	---	---	8.9	7.6	8.2	7.3	6.8	7.1
12	9.7	9.1	9.4	---	---	---	9.1	7.6	8.4	7.5	6.8	7.3
13	9.9	8.8	9.5	---	---	---	9.3	7.9	8.7	7.7	7.3	7.5
14	10.2	9.1	9.7	---	---	---	9.5	8.1	8.8	7.9	7.3	7.6
15	10.2	9.2	9.8	---	---	---	9.6	8.5	9.1	7.8	7.5	7.6
16	9.8	9.0	9.3	---	---	---	9.6	8.6	9.1	8.2	7.7	7.9
17	8.9	7.8	8.3	9.8	9.0	9.4	---	---	---	8.4	7.7	7.9
18	8.1	7.7	7.9	9.6	8.8	9.2	---	---	---	8.6	7.7	8.0
19	8.5	7.9	8.1	9.7	8.1	9.0	---	---	---	8.9	7.6	8.1
20	8.7	8.0	8.3	9.8	8.5	9.3	---	---	---	9.1	7.6	8.2
21	8.7	7.8	8.2	9.9	8.9	9.4	---	---	---	9.0	7.6	8.1
22	9.2	7.8	8.5	9.7	8.8	9.3	---	---	---	9.2	7.8	8.4
23	8.8	8.3	8.4	9.5	8.7	9.1	---	---	---	9.4	7.9	8.6
24	8.7	9.0	8.4	8.9	7.6	8.2	---	---	---	9.6	8.2	8.9
25	---	---	---	8.6	7.5	8.0	---	---	---	9.4	8.4	8.8
26	8.6	8.0	---	8.6	7.4	7.9	---	---	---	9.5	8.0	8.7
27	8.7	7.8	8.2	8.7	7.3	7.8	---	---	---	9.5	8.0	8.7
28	8.4	7.9	8.1	8.8	7.1	7.9	---	---	---	9.1	7.5	8.0
29	8.9	7.6	8.3	8.9	7.1	7.9	---	---	---	8.3	6.6	7.0
30	9.1	7.7	8.3	8.9	7.0	7.9	---	---	---	7.5	7.2	7.4
31	---	---	---	8.1	7.3	7.7	---	---	---	---	---	---
MONTH	10.2	6.4	8.4	9.9	7.0	8.4	---	---	---	9.6	6.6	7.9

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	18.0	19.0	---	---	---	8.5	7.0	7.5	---	---	---
2	19.5	18.5	19.0	---	---	---	7.0	6.0	6.5	---	---	---
3	21.0	19.0	19.5	---	---	---	6.5	5.5	6.0	---	---	---
4	21.0	19.0	20.0	---	---	---	6.5	5.5	6.0	---	---	---
5	21.0	19.5	20.0	---	---	---	8.5	6.5	7.5	---	---	---
6	20.5	18.0	19.0	9.5	8.5	---	9.5	8.5	9.0	---	---	---
7	19.0	18.0	18.5	9.0	8.0	8.5	9.0	8.0	8.5	---	---	---
8	20.0	18.0	18.5	8.5	7.5	8.0	8.0	6.5	7.0	---	---	---
9	19.5	17.5	18.5	8.5	7.5	8.0	7.0	6.5	6.5	---	---	---
10	20.5	18.0	19.0	8.0	6.5	7.0	7.0	6.0	6.5	---	---	---
11	19.0	17.0	18.0	7.5	6.0	6.5	6.0	5.0	5.5	---	---	---
12	19.0	16.5	17.5	7.5	6.5	7.0	5.0	5.0	5.0	---	---	---
13	19.0	16.5	17.5	8.0	7.0	7.5	5.0	4.5	4.5	---	---	---
14	19.0	17.0	17.5	9.0	7.5	8.5	5.0	4.5	5.0	---	---	---
15	18.0	16.0	17.0	10.5	8.5	9.5	4.5	4.0	4.5	---	---	---
16	17.5	15.5	16.5	11.0	9.5	10.5	4.5	3.5	4.0	---	---	---
17	16.0	14.0	15.0	9.5	8.0	8.5	3.5	1.5	2.5	---	---	---
18	14.0	13.5	14.0	8.5	7.5	8.0	1.5	0.5	1.0	1.5	1.5	---
19	14.5	12.0	13.5	9.0	8.0	8.5	0.5	0.0	0.5	2.0	1.0	1.5
20	14.5	12.5	13.5	8.5	7.0	7.5	2.5	0.5	1.0	2.0	1.5	1.5
21	15.5	12.5	13.5	8.0	6.5	7.5	3.5	2.5	3.0	2.5	2.0	2.0
22	15.5	12.5	14.0	9.5	7.5	8.5	3.0	1.0	2.5	3.0	2.0	2.5
23	15.0	12.5	13.5	9.5	7.5	8.5	3.0	2.0	2.5	3.5	2.5	3.0
24	15.5	12.5	14.0	9.5	8.5	9.0	4.0	3.0	3.5	3.5	3.0	3.5
25	15.0	13.0	14.0	10.5	9.0	9.5	3.5	2.5	3.0	4.0	3.0	3.5
26	16.0	13.5	14.5	10.0	9.5	9.5	3.5	3.0	---	3.5	3.0	3.5
27	15.5	13.5	14.5	10.0	9.5	9.5	---	---	---	5.0	3.0	4.5
28	14.0	12.5	13.5	11.0	9.5	10.5	---	---	---	5.0	4.5	5.0
29	13.0	12.5	---	10.5	9.0	9.5	---	---	---	5.5	4.5	5.0
30	---	---	---	9.0	8.5	8.5	---	---	---	4.5	4.0	4.0
31	---	---	---	---	---	---	---	---	---	5.0	4.0	4.5
MONTH	21.0	12.0	16.5	11.0	6.0	8.5	9.5	0.0	5.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.5	5.0	4.0	4.5	5.5	4.5	5.0	19.5	18.0	18.5
2	4.5	3.0	4.0	5.0	4.5	4.5	6.5	5.5	6.0	18.5	16.0	17.5
3	4.0	2.0	3.0	5.0	4.5	5.0	8.5	6.5	7.0	17.0	15.5	16.5
4	2.0	1.0	1.5	6.0	5.0	5.5	10.0	8.5	9.0	16.5	14.5	15.5
5	1.0	0.5	0.5	7.5	6.0	7.0	11.0	10.5	10.5	15.0	14.0	14.5
6	1.0	0.0	0.5	8.0	7.0	7.5	10.5	9.0	10.0	14.0	13.5	14.0
7	1.5	1.0	1.0	8.5	7.5	8.0	9.0	8.0	8.5	14.5	12.5	13.5
8	1.0	1.0	1.0	---	---	---	8.5	8.0	8.0	15.0	13.5	14.0
9	1.5	0.5	1.0	---	---	---	8.0	7.0	7.5	15.0	14.0	14.5
10	1.5	0.5	1.0	---	---	---	7.0	6.0	6.5	15.0	14.0	14.5
11	2.5	1.0	1.5	6.5	6.0	6.5	7.0	6.0	6.5	16.0	14.0	15.0
12	2.5	1.0	2.0	7.5	6.0	6.5	8.5	7.0	8.0	16.0	15.0	15.5
13	3.0	2.0	2.5	6.5	5.0	5.5	10.0	8.5	9.0	15.0	14.0	14.5
14	4.0	3.0	3.5	5.5	4.0	5.0	11.0	9.5	10.0	14.5	13.5	14.0
15	4.0	3.0	3.5	6.0	4.5	5.0	11.0	10.5	11.0	16.0	14.0	15.0
16	3.0	2.5	3.0	6.5	5.5	6.0	11.5	10.5	11.0	18.0	15.5	17.0
17	4.0	2.5	3.5	6.5	5.5	6.0	11.5	10.5	11.0	20.0	17.0	19.0
18	3.5	2.0	3.0	5.5	4.5	5.0	11.5	10.5	11.0	21.0	19.0	20.0
19	4.0	3.0	3.5	6.5	5.0	5.5	11.5	10.5	11.0	21.0	19.5	20.5
20	5.0	4.0	4.5	7.0	5.5	6.0	12.0	10.0	11.0	20.5	19.0	20.0
21	5.5	4.0	5.0	7.0	6.0	---	12.5	11.0	12.0	20.5	19.0	20.0
22	6.5	5.0	5.5	---	---	---	14.0	12.0	13.0	22.5	19.5	20.5
23	6.5	5.5	6.0	---	---	---	14.5	13.5	14.0	21.0	20.5	21.0
24	5.5	4.0	4.5	---	---	---	14.0	13.0	13.5	22.0	20.0	21.0
25	4.0	2.5	3.0	---	---	---	14.0	13.0	13.5	21.5	20.5	21.0
26	3.0	2.0	2.5	---	---	---	14.0	12.5	13.5	21.0	19.0	20.0
27	3.0	2.0	2.5	---	---	---	15.0	13.0	14.0	19.5	16.5	18.5
28	4.0	2.5	3.0	---	---	---	15.5	13.5	14.5	19.0	17.0	18.0
29	---	---	---	---	---	---	17.5	15.0	16.0	19.0	18.0	18.5
30	---	---	---	---	---	---	18.5	16.5	17.5	19.5	18.0	18.5
31	---	---	---	---	---	---	---	---	---	19.5	18.0	19.0
MONTH	6.5	0.0	3.0	---	---	---	18.5	4.5	10.5	22.5	12.5	17.5

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.0	19.5	25.0	22.5	23.5	28.0	25.5	26.5	---	---	---
2	19.5	19.0	19.5	26.0	23.5	24.5	28.5	23.5	25.5	---	---	---
3	20.5	18.0	19.0	26.5	25.0	25.5	25.5	22.5	24.5	23.0	22.0	---
4	21.5	19.0	20.0	29.0	26.0	27.5	27.0	25.0	24.5	22.0	19.5	20.5
5	22.5	20.0	21.5	28.0	27.0	27.5	26.5	24.0	25.5	19.5	18.5	19.0
6	23.5	21.0	22.0	29.0	26.5	27.5	26.5	24.0	26.5	19.0	18.0	18.5
7	22.5	21.5	---	30.0	27.0	28.5	26.5	25.0	25.5	18.0	17.5	18.0
8	---	---	---	31.0	27.5	29.0	26.0	24.0	25.0	19.0	17.5	18.5
9	---	---	---	32.0	28.0	30.0	27.0	24.5	25.5	20.0	18.5	19.0
10	---	---	---	32.0	29.0	30.5	27.0	25.0	26.0	21.0	19.5	20.0
11	27.0	25.0	25.5	30.0	27.0	29.0	27.5	24.5	25.5	21.5	20.5	21.0
12	25.5	24.0	24.5	28.0	25.0	26.5	28.0	23.5	26.0	22.5	21.0	21.5
13	25.5	23.0	24.0	28.5	24.5	26.5	27.5	24.5	26.0	24.5	22.0	23.0
14	26.0	22.5	24.0	29.5	25.0	26.5	28.0	25.0	26.5	23.5	22.0	23.0
15	25.5	22.5	24.0	29.0	27.0	27.5	29.0	24.5	26.5	22.0	21.0	21.5
16	25.0	23.0	23.5	---	---	---	29.0	25.5	27.0	22.0	20.5	21.0
17	24.5	22.5	23.5	29.0	25.0	27.0	27.5	26.0	26.5	21.5	20.0	20.5
18	24.5	23.0	23.5	28.5	26.0	27.0	---	---	---	22.0	20.0	21.0
19	24.5	22.5	23.5	29.5	26.0	27.5	---	---	---	22.0	20.0	21.0
20	25.0	23.0	24.0	28.5	24.5	26.5	---	---	---	23.0	20.5	21.0
21	25.5	24.0	24.5	28.5	24.5	26.0	---	---	---	23.0	21.0	22.0
22	26.5	23.5	25.0	29.0	24.5	26.5	---	---	---	21.5	19.5	20.5
23	25.0	23.0	24.0	26.5	23.5	25.5	---	---	---	19.5	17.5	19.0
24	23.5	22.5	23.0	24.5	22.5	23.5	---	---	---	18.0	16.0	17.0
25	---	---	---	24.5	21.5	23.0	---	---	---	17.0	16.0	16.5
26	22.0	21.5	---	24.5	22.0	23.0	---	---	---	17.0	15.5	16.0
27	22.0	21.0	21.5	26.5	22.5	24.0	---	---	---	18.5	15.5	17.0
28	21.0	20.0	20.5	27.5	24.0	25.5	---	---	---	18.5	17.0	17.5
29	22.0	20.0	21.0	28.5	24.5	26.0	---	---	---	19.0	18.0	18.5
30	23.5	21.0	22.5	28.5	24.0	26.5	---	---	---	18.5	17.0	17.5
31	---	---	---	27.5	25.5	26.5	---	---	---	---	---	---
MONTH	27.0	18.0	22.5	32.0	21.5	26.5	---	---	---	24.5	15.5	19.5

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N.J.

LOCATION.--Lat 40°11'21", long 74°45'22", Mercer County, on left bank at downstream end of wharf at Marine Terminal, Trenton, 1.6 mi (2.6 km) downstream from toll bridge on U.S. Highway 1, 2.0 mi (3.2 km) downstream from Assunpink Creek, and at mile 131.80 (212 km) upstream from Atlantic Ocean.

DRAINAGE AREA.--6,870 mi^2 (17,793 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974.
Water temperatures: October 1972 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 591 micromhos July 29; minimum, 106 micromhos Dec. 22, 23.
Water temperatures: Maximum, 30.0°C on Aug. 29, 30; minimum, freezing point on many days during winter months.

Period of record:
Specific conductance: Maximum, 722 micromhos Aug. 24, 1973; minimum, 90 micromhos Apr. 5, 1973.
Water temperatures: Maximum, 32.5°C Sept. 4, 1973; minimum, freezing point on many days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	210	166	185	166	143	153	133	128	131
2	---	---	---	237	160	180	170	139	148	142	130	135
3	---	---	---	217	165	186	165	139	150	145	134	139
4	294	178	---	228	169	187	162	143	154	146	135	142
5	269	173	203	228	172	193	191	149	165	153	140	146
6	233	172	187	209	171	188	195	154	172	151	143	146
7	246	171	192	223	177	189	168	148	159	154	146	150
8	287	169	188	232	182	192	156	132	141	161	151	155
9	331	161	205	230	185	205	149	131	142	159	146	154
10	371	173	207	204	180	192	156	134	141	161	148	152
11	285	189	210	194	175	181	139	121	131	175	149	162
12	228	181	195	221	170	187	131	117	123	165	158	162
13	301	179	198	242	175	194	142	120	131	165	155	161
14	258	193	207	209	171	185	142	130	135	161	153	157
15	354	197	230	255	175	197	139	131	134	166	155	161
16	271	186	217	236	173	201	135	129	131	175	164	169
17	298	184	212	278	174	194	137	128	133	165	159	163
18	208	188	196	282	169	180	133	127	130	164	159	162
19	367	191	230	210	169	187	137	130	134	170	156	163
20	356	197	232	186	166	174	144	138	146	170	161	166
21	316	204	213	194	141	160	184	133	145	182	166	171
22	256	197	212	190	167	176	138	106	117	181	158	165
23	236	197	209	215	164	182	116	106	112	175	161	166
24	341	197	235	211	173	189	132	116	123	144	153	159
25	350	197	222	219	173	184	132	121	127	164	151	156
26	285	194	212	196	175	182	141	128	133	159	149	153
27	233	186	200	221	178	192	147	128	138	161	151	156
28	205	184	191	245	174	193	141	124	135	171	151	158
29	232	179	202	186	163	173	128	119	123	156	140	145
30	223	163	185	185	158	171	124	119	122	142	135	139
31	223	177	196	---	---	---	142	123	131	143	132	137
MONTH	371	161	207	255	141	186	195	106	137	182	128	154

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N.J.-Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	132	139	147	135	141	145	135	140	---	---	---
2	145	138	142	154	142	147	146	133	139	---	---	---
3	142	137	140	153	140	146	145	125	136	---	---	---
4	144	139	141	162	141	148	137	124	131	---	---	---
5	144	138	141	161	143	150	138	114	126	---	---	---
6	150	141	146	167	143	152	137	111	119	---	---	---
7	162	146	154	155	132	145	136	110	119	---	---	---
8	158	148	153	156	130	135	140	118	125	---	---	---
9	163	150	156	148	132	136	170	120	140	---	---	---
10	159	151	155	150	134	139	152	119	127	---	---	---
11	165	154	159	147	136	141	164	115	129	---	---	---
12	165	155	160	145	136	139	151	132	143	---	---	---
13	170	159	164	141	133	136	145	117	129	---	---	---
14	169	161	165	146	136	140	140	118	126	---	---	---
15	169	158	163	151	137	144	125	117	121	---	---	---
16	166	158	162	180	147	157	130	114	123	154	122	137
17	165	156	161	159	142	150	176	127	149	151	128	140
18	169	156	162	153	141	147	252	135	193	149	130	138
19	169	163	166	146	136	140	231	124	177	153	135	142
20	174	163	168	146	136	141	184	120	143	185	137	156
21	175	167	172	153	140	145	152	127	138	173	147	157
22	171	161	166	159	140	149	147	126	138	179	148	160
23	174	158	166	155	141	147	163	134	145	186	155	166
24	161	129	143	156	140	148	146	129	136	185	159	171
25	132	123	128	148	133	141	150	134	143	182	159	167
26	137	125	131	133	122	126	171	132	147	180	162	169
27	145	129	136	139	118	126	179	137	151	194	166	175
28	147	131	138	138	125	129	178	142	153	227	169	198
29	---	---	---	132	124	127	178	153	169	226	170	188
30	---	---	---	139	126	132	---	---	---	265	174	202
31	---	---	---	137	128	133	---	---	---	248	187	204
MONTH	175	123	153	180	118	141	252	110	140	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	230	184	202	305	192	216	213	171	191	226	201	213
2	215	186	196	424	202	230	226	163	183	219	171	187
3	242	172	203	281	214	226	263	134	170	213	161	176
4	195	154	172	224	194	206	204	169	186	189	159	171
5	208	158	177	213	192	203	278	189	208	183	160	171
6	214	169	182	208	187	197	238	195	210	168	153	160
7	210	172	186	211	189	200	256	199	213	182	159	171
8	206	177	187	217	197	---	415	197	237	186	168	175
9	237	179	198	---	---	---	322	200	234	195	172	181
10	213	182	195	---	---	---	234	193	209	245	172	191
11	216	189	199	---	---	---	406	209	260	204	177	189
12	234	202	212	---	---	---	292	229	245	245	182	205
13	239	204	222	---	---	---	350	233	255	351	194	230
14	243	204	218	---	---	---	445	226	275	248	202	215
15	234	211	222	---	---	---	296	219	251	250	206	224
16	240	212	227	311	239	---	267	224	234	258	211	231
17	348	231	254	291	203	246	267	226	235	287	219	238
18	265	208	232	265	224	237	263	206	233	331	218	244
19	237	185	201	318	215	237	388	216	236	295	218	240
20	207	160	187	249	211	226	495	205	250	286	213	239
21	225	187	202	295	275	249	242	195	215	295	218	239
22	245	197	211	303	212	256	347	211	236	258	216	233
23	233	204	216	304	231	247	302	208	229	407	215	240
24	278	208	226	267	226	241	306	211	234	277	214	235
25	240	196	218	591	228	293	291	221	234	288	209	226
26	263	195	219	390	229	268	345	223	240	352	203	235
27	266	200	221	407	234	283	468	214	267	311	199	218
28	289	214	230	317	226	244	387	219	249	266	199	221
29	308	217	245	381	217	243	257	216	229	224	170	197
30	278	208	220	265	219	233	257	215	230	221	200	209
31	---	---	---	243	209	221	233	213	226	---	---	---
MONTH	348	154	209	---	---	---	495	134	229	407	153	210

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N.J.-Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	18.5	20.0	12.5	12.0	12.0	8.0	7.0	7.5	4.0	4.0	4.0
2	20.5	18.5	20.0	12.5	11.0	11.5	7.0	6.0	6.5	3.5	3.0	3.5
3	22.0	20.0	21.0	13.0	11.5	12.0	7.0	5.5	6.0	3.0	2.5	3.0
4	21.5	20.0	21.0	12.0	10.5	11.0	7.0	5.5	6.0	3.0	2.0	2.5
5	22.0	20.0	21.0	11.0	10.0	10.5	9.0	7.0	7.5	2.5	1.5	2.0
6	20.5	18.5	19.5	10.5	9.0	9.5	9.5	8.5	9.5	2.0	1.5	2.0
7	19.5	18.5	19.0	9.0	8.0	8.5	8.5	7.5	8.0	3.0	1.5	2.0
8	20.5	18.0	19.0	8.5	8.0	8.0	7.5	6.5	7.0	2.5	1.5	2.0
9	20.0	18.5	19.0	8.5	7.5	8.0	7.0	6.0	6.5	1.5	0.5	1.0
10	21.0	18.5	19.5	8.0	6.0	7.0	6.5	6.0	6.5	0.0	0.0	0.0
11	19.5	17.5	18.5	7.0	5.5	6.0	6.0	5.0	5.5	1.5	0.0	1.0
12	19.0	16.5	18.0	7.5	6.0	6.5	5.0	4.5	5.0	1.5	1.0	1.5
13	19.0	17.0	18.0	8.0	7.0	7.5	5.0	4.0	4.5	0.5	0.0	0.0
14	19.0	17.0	18.0	9.0	7.5	8.0	5.0	4.5	5.0	0.0	0.0	0.0
15	18.5	16.5	17.5	10.5	8.5	9.5	5.0	4.0	4.5	1.5	0.0	0.5
16	18.0	16.0	17.0	11.5	10.0	10.5	4.5	3.0	4.0	2.5	1.5	2.0
17	16.5	15.0	15.5	10.0	8.0	9.0	2.5	1.0	2.0	3.5	2.0	2.5
18	14.5	13.5	14.0	8.0	7.5	8.0	1.0	0.0	0.5	2.0	0.5	1.5
19	15.0	12.5	13.5	9.0	7.5	8.5	0.0	0.0	0.0	2.0	0.5	1.0
20	15.0	13.0	13.5	8.5	7.5	8.0	2.5	0.0	1.0	2.0	1.5	1.5
21	14.5	12.5	13.5	8.5	7.0	8.0	4.5	2.5	4.0	3.0	2.0	2.5
22	15.0	12.5	13.5	9.5	7.5	8.5	2.5	0.5	1.5	3.5	2.0	3.0
23	15.5	12.5	13.5	9.5	8.0	8.5	1.5	0.5	1.0	4.0	2.5	3.5
24	15.5	13.0	14.0	9.5	8.5	9.0	2.5	1.5	2.0	5.0	3.5	4.0
25	15.0	13.5	14.0	10.5	8.5	9.5	2.0	1.5	1.5	4.0	3.0	3.5
26	15.5	13.5	14.5	10.0	9.5	9.5	4.0	1.5	2.5	3.5	3.0	3.5
27	15.5	14.0	14.5	10.0	9.5	10.0	5.0	4.0	4.5	5.5	3.5	4.5
28	15.0	13.0	14.0	11.5	10.0	10.5	5.0	4.0	4.5	5.5	4.5	5.0
29	14.0	13.0	13.5	11.0	8.5	10.0	4.5	4.0	4.5	5.5	4.5	5.0
30	14.0	12.5	13.5	8.5	8.0	8.5	4.5	4.0	4.5	4.5	4.0	4.5
31	13.0	12.0	12.5	---	---	---	4.0	4.0	4.0	5.0	4.0	4.5
MONTH	22.0	12.0	16.5	13.0	5.5	9.0	9.5	0.0	4.5	5.5	0.0	2.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.5	5.5	4.5	4.5	5.5	4.0	5.0	19.0	18.0	18.5
2	4.0	3.0	3.5	5.0	4.5	4.5	7.0	5.5	6.0	18.5	17.0	18.0
3	3.0	1.0	2.0	5.5	4.5	5.0	9.0	6.5	7.5	17.0	15.5	---
4	1.0	0.0	0.5	7.0	5.0	6.0	10.5	8.5	9.5	---	---	---
5	0.0	0.0	0.0	7.5	6.5	7.5	11.5	11.0	11.5	---	---	---
6	0.0	0.0	0.0	8.0	7.0	7.5	11.5	9.5	10.5	---	---	---
7	0.5	0.0	0.0	9.0	7.5	8.0	9.0	8.0	8.5	---	---	---
8	0.0	0.0	0.0	8.0	7.0	7.5	8.5	8.0	8.0	---	---	---
9	0.5	0.0	0.0	7.0	6.5	7.0	8.0	7.0	7.5	---	---	---
10	0.5	0.0	0.0	7.0	6.5	6.5	7.5	6.0	7.0	---	---	---
11	1.5	0.0	0.5	6.5	5.0	6.0	8.0	6.5	7.0	---	---	---
12	2.0	0.5	1.0	6.5	5.5	6.0	9.5	7.0	8.5	---	---	---
13	3.0	1.5	2.0	6.0	4.5	5.0	10.5	9.0	9.5	---	---	---
14	4.0	2.5	3.0	5.0	4.0	4.5	12.0	10.5	11.0	---	---	---
15	4.0	2.0	3.0	6.0	4.5	5.0	12.0	11.0	11.5	---	---	---
16	2.5	2.0	2.0	7.0	5.5	6.0	12.5	10.5	11.5	---	---	---
17	3.5	2.0	2.5	6.5	5.5	6.0	12.0	10.5	11.5	---	---	---
18	3.0	1.5	2.0	5.5	4.5	5.0	12.5	10.5	11.5	---	---	---
19	4.0	2.5	3.0	7.0	4.5	6.0	12.0	11.0	11.5	---	---	---
20	5.0	4.0	4.5	7.0	5.5	6.5	12.5	10.5	11.5	---	---	---
21	5.5	4.0	4.5	7.0	6.5	6.5	13.5	11.5	12.0	---	---	---
22	7.0	4.5	5.5	7.0	5.5	6.5	14.5	12.0	13.0	---	---	---
23	6.5	5.5	6.0	6.5	5.0	6.0	15.0	13.5	14.5	---	---	---
24	5.5	4.0	4.5	7.5	6.5	7.0	14.5	13.5	14.0	---	---	---
25	4.0	2.0	2.5	7.0	5.5	6.0	14.5	12.5	13.5	---	---	---
26	3.0	1.5	2.5	6.5	5.0	6.0	14.5	13.0	13.5	---	---	---
27	3.0	2.0	2.5	7.0	5.0	6.0	15.5	13.5	14.0	---	---	---
28	4.5	2.5	3.0	7.0	6.0	6.5	16.0	14.0	15.0	---	---	---
29	---	---	---	7.0	5.5	6.0	18.0	15.5	16.5	---	---	---
30	---	---	---	5.0	5.0	5.0	19.5	17.5	18.5	---	---	---
31	---	---	---	5.0	4.5	4.5	---	---	---	---	---	---
MONTH	7.0	0.0	2.5	9.0	4.0	6.0	19.5	4.0	11.0	---	---	---

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	28.0	26.5	27.0
2	---	---	---	---	---	---	---	---	---	26.5	24.5	25.5
3	---	---	---	---	---	---	---	---	---	25.0	23.0	24.5
4	---	---	---	---	---	---	---	---	---	24.0	21.0	22.5
5	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
6	---	---	---	---	---	---	26.0	24.0	25.5	21.0	19.5	20.0
7	---	---	---	---	---	---	25.5	24.0	25.0	19.5	19.0	19.5
8	---	---	---	---	---	---	25.0	23.0	24.0	20.5	19.0	19.5
9	---	---	---	---	---	---	25.0	24.0	24.0	21.5	19.5	20.5
10	---	---	---	---	---	---	25.5	22.5	24.0	22.5	20.5	21.5
11	---	---	---	---	---	---	25.5	23.5	24.5	22.5	21.0	22.0
12	---	---	---	---	---	---	25.5	23.5	24.5	23.5	21.5	22.5
13	---	---	---	---	---	---	26.0	24.0	25.0	25.0	22.5	23.5
14	---	---	---	---	---	---	27.5	24.5	25.5	24.5	22.5	23.5
15	---	---	---	---	---	---	28.0	25.0	26.0	23.0	21.0	22.0
16	---	---	---	---	---	---	28.0	25.0	26.5	22.5	21.0	21.5
17	---	---	---	---	---	---	28.0	25.5	26.0	21.5	20.5	21.0
18	---	---	---	---	---	---	26.0	24.5	25.0	22.0	19.5	20.5
19	---	---	---	---	---	---	25.5	24.0	24.5	21.5	20.0	20.5
20	---	---	---	---	---	---	28.5	26.0	27.0	22.5	20.5	21.5
21	---	---	---	---	---	---	28.0	26.0	27.0	22.5	21.0	22.0
22	---	---	---	---	---	---	27.0	26.0	26.5	21.5	20.0	21.0
23	---	---	---	---	---	---	27.5	25.5	26.5	20.0	18.0	19.0
24	---	---	---	---	---	---	29.5	26.5	27.5	18.0	16.0	17.0
25	---	---	---	---	---	---	29.5	26.5	28.0	17.5	15.5	16.0
26	---	---	---	---	---	---	28.5	26.5	27.0	18.0	15.5	16.5
27	---	---	---	---	---	---	28.5	25.5	27.0	18.5	15.5	16.5
28	---	---	---	---	---	---	29.0	26.5	27.5	18.0	16.5	17.5
29	---	---	---	---	---	---	30.0	27.0	28.5	19.5	18.0	18.5
30	---	---	---	---	---	---	30.0	27.5	28.5	18.5	16.0	17.5
31	---	---	---	---	---	---	28.5	27.0	27.5	---	---	---
MONTH	---	---	---	---	---	---	30.0	22.5	26.0	28.0	15.5	20.5

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, at center of river 1,300 ft (396 m) upstream from bridge on a line from the Pennsylvania bank through channel station -79.2 to Lehigh range light on New Jersey bank.

DRAINAGE AREA.--7,163 mi^2 (18,508 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.
Water temperatures: October 1954 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 260 micromhos July 27; minimum, 77 micromhos Dec. 23.
Dissolved oxygen: Maximum, 16.0 mg/l Jan. 12; minimum, 0.8 mg/l July 28.
pH: Maximum, 7.3 Jan. 17-20; minimum, 6.0 Oct. 20, Dec. 9, 18, 24, Sept. 12.
Water temperatures: Maximum, 29.0°C July 10, 13; minimum, 1.0°C Feb. 7, 12.

Period of record:
Specific conductance (1968-74): Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 5, 1968.
Dissolved oxygen (1962-74): Maximum, 16.0 mg/l Jan. 12, 1974; minimum, 0.0 mg/l on several days in 1963, 1965, and 1967.
pH (1968-74): Maximum, 8.4 Jan. 15, 1972; minimum, 4.1 Dec. 26, 1972 and Mar. 7, 1973.
Water temperatures: Maximum, 31.0°C July 9, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Water quality recorder located at raw-water intake of Bristol Filtration Plant, 1.2 mi (1.9 km) upstream from sampling site. Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
DEC. 06...	1345	.1	910	--	90	--	14	4.1	6.0	2.0	7
JAN. 03...	--	3.7	390	--	60	--	10	3.3	4.0	1.2	24
FEB. 07...	--	3.9	1000	--	90	--	12	4.0	5.4	1.3	28
MAR. 07...	1615	3.4	1200	--	110	--	13	4.7	5.9	1.5	34
APR. 04...	1310	4.1	--	--	--	--	12	3.9	6.0	1.4	31
MAY 02...	1245	2.7	--	420	--	80	16	5.2	7.0	1.7	44
JUNE 06...	1340	3.6	--	80	--	30	14	5.0	6.9	1.8	45
JULY 11...	1328	2.5	--	30	--	80	16	5.5	8.1	2.1	44
AUG. 08...	1315	3.5	--	10	--	0	16	5.8	8.6	2.6	34
SEP. 05...	1255	5.2	--	--	--	--	--	--	--	--	34

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
DEC. 06...	15	31	23	9.2	.2	.85	--	.01	--	.86	--
JAN. 03...	0	20	18	6.9	.1	.99	--	.01	--	1.0	--
FEB. 07...	0	23	21	9.0	.3	1.3	--	.01	--	1.3	--
MAR. 07...	0	28	22	9.7	.1	.90	--	.05	--	.95	--
APR. 04...	0	25	21	9.7	.0	.87	--	.06	--	.93	--
MAY 02...	0	36	25	11	.2	--	.97	--	.13	--	1.1
JUNE 06...	0	37	23	9.2	.1	--	.81	--	.06	--	.87
JULY 11...	0	36	28	12	.2	--	.74	--	.11	--	.85
AUG. 08...	--	28	28	11	.3	--	.83	--	.09	--	.92
SEP. 05...	--	28	19	7.7	.2	--	.62	--	.04	--	.66

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
DEC. 06...	.07	86	77	52	21	167	10.1	--	12	--	.0
JAN. 03...	.04	96	59	39	19	120	7.8	--	8	--	1.0
FEB. 07...	.08	95	71	46	23	139	7.2	--	9	--	3.0
MAR. 07...	.07	89	77	52	24	145	7.0	--	6	--	5.0
APR. 04...	.05	--	73	46	21	135	7.1	--	16	4	4.0
MAY 02...	.06	107	96	61	25	175	7.2	16.0	--	--	4.4
JUNE 06...	.06	101	90	56	19	164	7.1	22.0	--	--	5.7
JULY 11...	.07	116	100	63	27	189	6.8	28.0	--	--	11
AUG. 08...	1.5	114	101	64	36	178	--	27.0	--	--	--
SEP. 05...	.02	102	--	--	--	136	--	20.5	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	207	198	201	208	195	201	209	189	197	130	113	119
2	204	197	201	198	183	191	192	182	187	132	121	127
3	204	195	200	184	170	179	180	165	174	147	132	140
4	204	200	203	174	168	172	167	152	159	172	142	152
5	206	204	205	179	170	175	164	151	154	175	153	162
6	209	205	206	183	177	180	164	151	156	190	172	178
7	216	207	212	189	180	185	174	162	165	195	184	189
8	220	213	217	192	185	188	173	140	161	207	188	196
9	218	215	217	200	188	194	143	110	128	218	201	208
10	219	213	217	207	196	201	117	108	112	221	210	215
11	219	212	217	212	204	207	122	103	114	216	206	211
12	218	213	215	216	207	212	95	82	88	247	212	223
13	215	210	213	223	213	217	90	84	86	258	235	239
14	218	212	214	222	217	220	100	87	93	251	240	242
15	226	216	220	224	219	221	115	100	106	244	228	237
16	229	220	224	223	215	219	140	117	128	231	227	229
17	231	224	228	220	213	216	174	142	152	242	228	233
18	236	227	232	218	213	215	160	147	153	252	235	240
19	242	232	237	223	213	219	177	162	169	238	228	231
20	249	235	240	227	219	220	195	173	179	231	225	228
21	244	239	242	222	218	220	198	149	176	249	225	230
22	244	241	242	222	217	---	170	80	129	247	213	225
23	248	241	245	---	---	---	90	77	81	220	196	207
24	256	244	248	---	---	---	109	86	97	215	189	201
25	254	247	251	---	---	---	112	107	110	191	169	178
26	253	247	251	221	214	---	125	111	117	168	158	162
27	254	250	252	221	215	217	136	122	129	161	139	156
28	254	250	253	247	218	222	147	123	137	168	152	---
29	256	243	251	230	225	228	119	98	106	164	139	155
30	247	227	238	228	211	221	103	95	99	136	114	121
31	227	203	215	---	---	---	113	103	108	118	103	110
MONTH	256	195	226	247	168	206	209	77	134	258	103	191

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	128	103	112	170	133	140	171	139	160	207	190	196
2	119	111	114	164	142	149	173	169	---	206	196	202
3	128	113	119	163	153	157	---	---	---	206	199	201
4	139	119	126	170	158	162	---	---	---	209	202	205
5	145	129	136	182	152	161	---	---	---	211	196	203
6	153	142	147	177	142	159	---	---	---	208	189	195
7	163	139	156	166	158	163	---	---	---	192	186	---
8	175	160	166	188	133	155	109	99	103	---	---	---
9	188	173	178	146	125	131	113	103	---	---	---	---
10	187	179	183	136	125	129	129	110	---	---	---	---
11	200	184	193	141	127	133	130	119	125	---	---	---
12	206	193	---	137	131	134	132	122	126	---	---	---
13	---	---	---	153	130	139	138	129	134	---	---	---
14	---	---	---	155	135	146	139	131	135	172	141	---
15	---	---	---	161	139	151	138	129	135	138	94	111
16	---	---	---	154	148	151	138	128	133	115	97	104
17	---	---	---	177	149	159	135	117	---	137	117	129
18	---	---	---	175	161	166	---	---	---	154	133	143
19	---	---	---	170	147	162	---	---	---	159	148	153
20	---	---	---	149	132	142	---	---	---	152	142	147
21	---	---	---	146	134	139	---	---	---	162	143	150
22	---	---	---	152	140	144	---	---	---	171	154	162
23	---	---	---	156	139	147	---	---	---	184	167	174
24	---	---	---	140	124	131	171	153	---	191	180	184
25	---	---	---	131	124	127	173	152	163	195	187	190
26	---	---	---	135	126	129	183	165	173	205	193	197
27	131	106	121	143	131	137	182	178	180	207	198	202
28	132	124	127	162	137	141	187	181	183	216	205	208
29	---	---	---	148	140	143	195	183	186	217	210	---
30	---	---	---	149	144	146	200	187	191	---	---	---
31	---	---	---	165	139	155	---	---	---	---	---	---
MONTH	---	---	---	188	124	146	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	231	217	224	254	239	---	248	241	246
2	---	---	---	235	225	227	---	---	---	246	231	242
3	---	---	---	232	222	227	---	---	---	240	181	218
4	234	224	---	236	214	222	---	---	---	189	146	174
5	235	202	220	226	216	221	---	---	---	146	137	141
6	217	201	---	232	215	224	---	---	---	143	135	140
7	---	---	---	227	203	218	---	---	---	143	124	130
8	---	---	---	220	195	206	---	---	---	137	127	132
9	---	---	---	213	194	204	---	---	---	155	138	146
10	176	171	---	209	200	207	---	---	---	160	152	155
11	182	176	178	214	208	210	---	---	---	158	153	155
12	192	182	185	218	211	214	---	---	---	165	139	158
13	197	188	192	234	215	220	---	---	---	175	159	165
14	206	194	198	237	219	226	---	---	---	188	170	177
15	225	199	206	240	224	231	204	191	---	199	180	189
16	215	203	210	238	213	---	213	197	203	207	192	198
17	213	189	199	---	---	---	219	198	209	214	198	205
18	205	193	198	---	---	---	227	207	218	211	198	205
19	215	198	206	---	---	---	224	213	220	213	203	208
20	214	201	210	---	---	---	220	201	211	215	204	211
21	210	187	198	---	---	---	218	196	204	218	208	214
22	196	169	183	253	239	---	203	198	---	223	217	219
23	193	166	178	259	244	252	---	---	---	233	220	225
24	193	174	185	259	246	251	---	---	---	232	224	228
25	200	188	193	255	250	253	---	---	---	237	227	232
26	206	197	201	258	253	255	238	231	---	240	231	235
27	214	205	209	260	255	257	237	231	234	241	233	237
28	218	211	215	259	254	256	242	231	237	240	199	233
29	222	214	216	259	254	255	249	231	242	242	213	225
30	224	214	216	255	253	254	253	238	247	218	173	199
31	---	---	---	256	246	253	251	244	247	---	---	---
MONTH	235	166	---	260	194	---	---	---	---	248	124	195

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	5.8	6.2	8.0	7.1	7.5	9.9	9.2	9.6	---	---	---
2	6.6	5.9	---	8.5	7.9	8.2	10.1	9.7	9.9	---	---	---
3	6.6	5.9	6.2	8.7	8.2	8.4	10.5	9.9	10.3	---	---	---
4	6.6	5.8	6.2	8.7	8.3	8.5	11.0	10.3	---	---	---	---
5	7.1	6.0	6.3	8.7	8.3	8.5	11.9	10.6	11.1	---	---	---
6	6.7	6.0	6.4	9.2	8.5	8.7	12.0	11.6	11.8	---	---	---
7	6.5	5.9	6.3	9.3	8.8	9.0	11.7	10.8	11.2	---	---	---
8	6.5	5.9	6.2	9.2	8.7	---	11.5	10.7	11.1	---	---	---
9	6.6	5.8	---	9.6	8.9	---	12.1	11.3	---	14.5	13.9	---
10	6.8	5.7	6.2	9.8	9.1	9.4	12.2	11.6	---	14.7	14.4	---
11	7.1	6.0	6.5	9.8	9.2	---	11.9	11.5	11.7	15.6	14.6	15.4
12	7.0	6.0	6.4	10.0	9.3	---	12.5	11.9	12.2	16.0	15.5	15.8
13	6.8	6.0	6.4	10.1	9.3	9.8	13.1	12.4	12.7	15.8	15.4	15.6
14	6.8	6.0	6.3	10.4	9.7	10.0	13.1	12.7	12.9	15.8	15.3	15.6
15	6.7	5.9	6.2	10.4	9.8	10.1	12.9	12.7	12.8	15.8	15.4	15.6
16	6.5	5.9	6.1	10.3	10.0	10.2	13.3	12.7	13.1	15.8	15.5	15.6
17	6.7	6.0	6.2	10.4	10.0	10.2	13.3	12.9	13.1	15.7	15.3	15.5
18	6.6	6.0	6.3	10.3	9.7	9.9	13.7	12.8	13.4	15.3	14.8	---
19	6.5	5.9	6.1	9.8	9.3	9.6	13.8	13.3	13.6	14.9	14.6	14.7
20	6.4	5.7	6.0	9.4	9.1	9.3	14.1	13.6	---	14.8	14.1	14.5
21	6.4	5.7	6.0	9.5	9.0	9.3	14.1	11.9	13.5	15.6	14.4	14.8
22	6.7	5.6	6.1	9.6	9.0	---	12.6	9.4	---	15.5	13.5	14.2
23	6.8	5.5	6.2	---	---	---	12.7	9.9	---	13.5	12.5	13.3
24	6.8	5.6	6.2	---	---	---	11.0	10.0	10.6	12.5	12.0	12.3
25	7.1	5.8	6.3	---	---	---	10.3	9.8	---	12.8	12.0	12.3
26	6.9	5.9	6.3	10.0	9.2	---	---	---	---	12.8	12.2	12.4
27	7.1	6.0	6.5	9.8	9.3	9.6	---	---	---	12.5	12.2	12.3
28	7.4	6.3	6.8	9.7	9.2	9.5	---	---	---	13.0	12.3	---
29	7.9	7.0	7.3	9.6	9.2	9.4	---	---	---	12.7	12.4	12.6
30	8.1	7.3	7.7	9.6	9.2	9.4	---	---	---	13.3	12.6	13.0
31	8.2	7.1	7.7	---	---	---	---	---	---	13.5	13.1	13.3
MONTH	8.2	5.5	6.4	10.4	7.1	---	14.1	9.2	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.3	12.8	13.1	13.7	13.4	13.6	12.6	11.7	12.2	8.3	7.8	7.9
2	13.1	12.7	---	13.5	12.9	13.2	12.4	11.5	12.0	7.8	7.4	7.6
3	13.0	12.6	12.7	13.0	12.6	12.8	12.7	12.0	12.3	7.4	6.9	7.2
4	13.5	12.7	13.1	12.7	12.4	12.6	12.2	11.3	11.9	7.8	6.8	7.4
5	13.9	13.4	13.6	12.6	12.0	12.3	11.5	10.4	11.0	7.9	7.2	7.5
6	14.4	13.7	14.1	12.1	11.6	11.9	11.9	10.3	10.5	8.1	7.2	7.7
7	14.5	14.1	14.3	11.6	11.3	11.4	11.3	10.6	10.9	8.4	7.5	---
8	14.5	14.2	14.3	11.5	11.4	11.4	11.6	11.3	11.4	---	---	---
9	14.2	13.8	14.0	11.5	11.2	11.4	12.5	10.6	11.2	---	---	---
10	14.1	13.9	14.0	11.7	11.3	11.5	11.1	10.7	10.9	---	---	---
11	14.0	11.4	12.8	12.0	11.6	11.8	11.4	11.1	11.2	---	---	---
12	13.5	12.5	---	12.1	11.7	11.9	11.4	11.1	11.2	---	---	---
13	---	---	---	12.2	11.4	11.8	11.1	10.6	10.9	---	---	---
14	---	---	---	12.6	11.7	12.2	10.5	10.1	10.3	8.1	7.4	---
15	---	---	---	12.5	11.8	12.1	10.1	9.7	9.9	8.4	8.0	8.2
16	---	---	---	12.7	11.7	12.4	9.8	9.3	9.6	8.2	7.5	7.8
17	---	---	---	12.5	11.7	12.3	10.4	9.5	10.0	7.5	7.0	7.3
18	---	---	---	12.0	11.2	11.7	10.7	10.2	---	7.0	6.7	6.8
19	---	---	---	12.9	11.5	12.2	---	---	---	6.9	6.3	6.6
20	13.5	13.1	---	12.9	12.6	12.8	---	---	---	7.3	6.5	6.8
21	13.5	13.0	13.3	13.0	12.5	12.7	---	---	---	7.3	6.7	7.0
22	13.3	12.9	13.1	12.5	11.5	12.0	---	---	---	7.3	6.6	6.9
23	12.9	12.5	12.7	12.4	11.8	12.1	---	---	---	6.8	6.4	6.7
24	13.0	12.4	12.6	12.7	12.1	12.5	9.0	8.8	---	6.6	6.0	6.3
25	13.5	12.5	13.0	12.5	11.9	12.2	9.6	9.0	9.3	6.3	5.7	5.9
26	13.4	12.8	13.2	12.7	12.0	12.3	9.9	9.2	9.6	6.5	5.6	6.0
27	13.6	13.1	13.4	13.6	12.3	13.0	10.1	9.5	9.9	6.7	5.6	6.1
28	14.0	13.4	13.6	14.0	12.4	13.1	10.5	9.7	10.1	6.9	5.6	6.1
29	---	---	---	13.8	11.0	13.1	10.1	8.7	9.4	6.5	6.1	---
30	---	---	---	13.8	11.6	12.6	8.6	8.1	8.4	---	---	---
31	---	---	---	13.1	11.8	12.4	---	---	---	---	---	---
MONTH	---	---	---	14.0	11.0	12.3	12.7	8.1	---	---	---	---

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	5.8	6.2	2.4	1.2	---	3.7	2.0	2.7
2	---	---	---	7.1	5.4	6.2	---	---	---	4.0	2.3	3.1
3	---	---	---	6.6	5.5	6.1	---	---	---	5.2	2.8	4.0
4	---	---	---	6.3	5.3	5.8	---	---	---	6.5	4.5	5.6
5	---	---	---	5.9	5.0	5.4	---	---	---	7.0	6.2	6.7
6	---	---	---	5.2	4.3	4.7	---	---	---	7.6	7.0	7.3
7	---	---	---	4.7	3.7	4.1	---	---	---	7.8	7.4	7.6
8	---	---	---	4.0	3.3	3.6	---	---	---	7.9	7.1	7.5
9	---	---	---	4.0	2.8	3.3	---	---	---	7.8	7.2	7.5
10	6.4	6.0	---	4.1	2.8	3.4	---	---	---	7.5	6.5	---
11	---	---	---	4.0	2.8	3.4	---	---	---	---	---	---
12	6.6	5.4	---	3.5	2.5	3.0	---	---	---	---	---	---
13	5.9	4.8	5.4	2.8	1.9	2.4	---	---	---	---	---	---
14	5.9	4.3	4.8	2.7	1.7	2.0	---	---	---	7.8	7.1	---
15	5.7	4.0	4.7	2.4	1.6	1.8	6.5	3.8	---	7.6	6.9	7.2
16	4.9	3.8	4.4	2.3	1.4	---	6.4	3.6	4.8	7.4	6.6	7.0
17	4.9	3.7	4.2	---	---	---	6.5	3.6	4.7	7.3	6.4	6.8
18	5.0	3.3	4.1	---	---	---	5.8	2.8	4.3	7.1	6.2	6.5
19	5.1	3.5	4.4	---	---	---	5.4	3.0	4.2	7.0	5.8	6.3
20	4.6	3.4	4.1	---	---	---	4.4	3.1	3.8	6.7	4.8	5.7
21	4.6	3.3	3.8	---	---	---	5.9	2.9	4.6	5.9	4.8	5.2
22	4.3	3.1	3.6	3.1	2.7	---	5.2	4.2	---	5.9	5.0	5.5
23	4.1	3.0	3.5	4.0	2.1	2.7	---	---	---	6.0	5.1	5.6
24	4.6	2.9	3.8	3.1	1.6	2.2	---	---	---	6.0	5.2	5.5
25	4.7	3.7	4.1	2.7	1.3	1.9	---	---	---	6.4	5.1	5.6
26	4.9	3.2	3.9	2.2	1.1	1.6	4.0	2.4	---	6.9	5.2	6.1
27	5.2	3.5	4.2	1.8	1.0	1.3	4.4	2.4	3.2	7.3	4.6	6.4
28	6.2	4.3	5.0	1.6	0.8	1.1	4.0	2.7	3.3	7.4	5.7	6.7
29	6.4	5.1	5.7	2.4	0.9	1.4	3.6	2.6	3.1	7.9	5.9	7.2
30	6.7	5.5	6.1	4.0	1.1	1.6	3.7	2.4	2.8	7.9	6.8	7.5
31	---	---	---	2.5	0.9	1.7	3.4	2.1	2.7	---	---	---
MONTH	---	---	---	7.1	0.8	---	---	---	---	7.9	2.0	6.1

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.8	6.9
2	6.9	6.9	6.9	6.9	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
3	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.9	7.0
4	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.9	7.0	6.9	7.0
5	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.8	7.0	6.9	7.0
6	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.0	6.8	7.0	7.0	7.0
7	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.8	6.9	7.0	6.6	6.9
8	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.9	6.9	7.1	7.0	7.0
9	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.0	6.9	7.2	7.0	7.2
10	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9	7.2	7.2	7.2
11	6.9	6.8	6.9	7.1	6.9	7.0	6.9	6.8	6.9	7.2	7.2	7.2
12	6.9	6.8	6.8	7.1	6.9	7.0	6.8	6.8	6.8	7.2	7.1	7.2
13	6.8	6.8	6.8	7.0	7.0	7.0	6.8	6.8	6.8	7.2	7.2	7.2
14	6.8	6.7	6.8	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.1	7.2
15	7.0	6.8	6.9	7.1	7.0	7.1	6.9	6.8	6.9	7.2	7.2	7.2
16	7.0	6.9	7.0	7.1	7.0	7.1	6.9	6.8	6.9	7.2	7.2	7.2
17	7.0	7.0	7.0	7.1	7.0	7.1	7.2	6.9	7.0	7.3	7.2	7.2
18	7.0	7.0	7.0	7.1	7.0	7.0	7.0	6.0	6.9	7.3	7.2	7.3
19	7.0	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0	7.3	7.2	7.2
20	7.0	6.0	6.9	6.9	6.9	6.9	7.2	6.9	7.0	7.3	7.2	7.2
21	7.0	6.9	6.9	6.9	6.8	6.9	7.1	6.9	7.0	7.2	7.2	7.2
22	7.0	6.9	6.9	7.0	6.8	---	7.0	6.6	6.8	7.2	6.9	---
23	7.0	6.8	6.9	---	---	---	6.7	6.6	6.7	7.0	6.9	6.9
24	6.9	6.8	6.9	---	---	---	6.8	6.0	6.7	6.9	6.9	6.9
25	6.9	6.8	6.9	---	---	---	6.9	6.9	6.8	6.9	6.8	6.9
26	6.9	6.8	6.9	6.9	6.8	---	6.9	6.8	6.9	6.9	6.8	---
27	6.9	6.8	6.9	6.9	6.8	---	6.9	6.8	6.9	6.9	6.8	---
28	7.0	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.9	---
29	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	---
30	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.9
31	7.0	6.8	6.9	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8
MONTH	7.1	6.0	6.9	7.1	6.8	6.9	7.2	6.0	6.9	7.3	6.6	7.1

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
2	6.9	6.8	6.9	7.0	6.9	7.0	7.0	6.7	7.0	7.0	6.9	6.9
3	6.8	6.7	6.7	7.0	6.9	7.0	7.1	7.0	7.0	7.0	6.9	6.9
4	7.0	6.7	6.9	7.0	7.0	7.0	7.1	6.9	7.0	7.1	6.9	7.0
5	7.0	7.0	7.0	7.1	6.9	7.0	7.0	6.9	6.9	7.0	7.0	7.0
6	7.0	7.0	7.0	6.9	6.8	6.9	7.0	6.8	6.8	7.0	6.9	7.0
7	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.0	6.9	---
8	7.0	7.0	7.0	7.2	6.8	6.9	6.8	6.7	6.8	---	---	---
9	7.0	7.0	7.0	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---
10	7.0	7.0	7.0	6.8	6.7	6.8	6.9	6.8	6.9	---	---	---
11	7.2	6.7	6.9	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---
12	6.9	6.6	6.7	6.8	6.8	6.8	6.9	6.9	6.9	---	---	---
13	6.8	6.7	6.7	7.0	6.8	6.9	6.9	6.9	6.9	---	---	---
14	6.8	6.7	6.7	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.7	---
15	6.8	6.7	6.8	6.9	6.9	6.9	7.0	6.8	6.9	7.0	6.6	6.7
16	6.9	6.7	6.8	6.9	6.8	6.9	7.0	6.8	6.9	6.7	6.5	6.6
17	6.9	6.7	6.8	6.9	6.9	6.9	6.9	6.8	---	6.6	6.5	6.6
18	6.9	6.8	6.8	6.9	6.8	6.9	---	---	---	6.6	6.6	6.6
19	6.9	6.8	6.8	7.0	6.9	7.0	---	---	---	6.7	6.5	6.6
20	7.1	6.8	6.9	7.0	6.9	7.0	---	---	---	6.8	6.6	6.7
21	7.1	7.1	7.1	7.0	6.9	7.0	---	---	---	6.8	6.7	6.7
22	7.2	7.1	7.2	7.0	6.8	6.9	---	---	---	7.0	6.7	6.8
23	7.2	7.1	7.2	6.9	6.8	6.9	---	---	---	6.8	6.7	6.7
24	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.8	---	6.8	6.7	6.7
25	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.9	---	6.8	6.7	6.7
26	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.8	---	6.8	6.7	6.7
27	6.9	6.8	6.9	7.0	7.0	7.0	7.0	6.6	6.9	6.8	6.7	6.7
28	6.9	6.8	6.9	7.0	7.0	7.0	7.1	6.9	7.0	6.9	6.6	6.7
29	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0	6.8	6.6	6.7
30	---	---	---	7.1	7.0	7.1	7.0	6.9	6.9	6.7	6.6	6.7
31	---	---	---	7.1	7.0	7.1	---	---	---	6.7	6.6	6.7
MONTH	7.2	6.6	6.9	7.2	6.7	6.9	7.1	6.6	---	7.1	6.5	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	---	6.9	6.9	6.9	6.5	6.4	---	6.7	6.5	6.6
2	6.7	6.6	6.7	7.0	6.8	6.9	---	---	---	6.7	6.5	6.6
3	6.7	6.6	6.7	6.9	6.8	6.9	---	---	---	6.7	6.4	6.6
4	6.9	6.7	6.8	6.9	6.8	6.9	---	---	---	6.7	6.5	6.6
5	6.9	6.8	6.8	6.9	6.8	6.8	---	---	---	6.7	6.6	6.6
6	6.9	6.8	6.8	6.8	6.7	6.7	---	---	---	6.7	6.5	6.6
7	6.9	6.8	6.8	6.7	6.7	6.7	---	---	---	6.6	6.4	6.6
8	6.9	6.7	6.8	6.7	6.6	6.6	---	---	---	6.7	6.4	6.6
9	6.8	6.7	6.7	6.7	6.6	6.7	---	---	---	6.7	6.4	---
10	6.7	6.6	---	6.7	6.6	6.7	---	---	---	6.5	6.4	---
11	---	---	---	6.7	6.6	6.6	---	---	---	6.4	6.3	6.4
12	6.9	6.8	---	6.7	6.5	6.6	---	---	---	6.4	6.0	6.3
13	6.9	6.7	6.8	6.6	6.5	6.6	---	---	---	6.6	6.3	6.4
14	6.9	6.7	6.8	6.6	6.4	6.6	---	---	---	6.5	6.3	6.4
15	6.9	6.7	6.8	6.6	6.5	6.6	6.9	6.8	---	6.5	6.3	6.4
16	6.8	6.7	6.7	6.6	6.5	---	6.9	6.7	6.8	6.5	6.4	6.4
17	7.1	6.7	7.0	---	---	---	7.0	6.7	6.8	6.6	6.3	6.4
18	7.2	6.9	7.1	---	---	---	6.9	6.7	6.8	6.6	6.3	6.4
19	7.1	7.0	7.1	---	---	---	7.0	6.8	6.9	6.5	6.3	6.4
20	7.1	6.9	6.9	---	---	---	7.0	6.8	6.9	6.6	6.3	6.4
21	6.9	6.7	6.8	---	---	---	7.0	6.8	---	6.5	6.4	6.5
22	6.8	6.7	6.7	6.5	6.2	---	---	---	---	6.7	6.5	6.5
23	6.8	6.7	6.7	6.6	6.4	6.5	---	---	---	6.6	6.5	6.6
24	6.8	6.7	6.8	6.6	6.4	6.5	---	---	---	6.7	6.5	6.6
25	6.8	6.7	6.8	6.5	6.3	6.4	---	---	---	6.7	6.5	6.6
26	6.9	6.7	6.8	6.4	6.3	6.4	6.6	6.4	---	6.8	6.5	6.7
27	6.9	6.7	6.8	6.4	6.3	6.4	6.7	6.4	6.5	6.8	6.6	6.7
28	7.2	6.8	6.9	6.4	6.3	6.4	6.7	6.4	6.6	6.8	6.6	6.7
29	6.9	6.9	6.9	6.4	6.3	6.4	6.7	6.4	6.6	6.9	6.6	6.8
30	6.9	6.9	6.9	6.4	6.3	6.4	6.8	6.5	6.6	6.9	6.5	6.7
31	---	---	---	6.5	6.3	6.4	6.8	6.5	6.6	---	---	---
MONTH	7.2	6.6	6.8	7.0	6.2	---	---	---	---	6.9	6.0	6.5

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.0	14.5	14.0	14.0	10.5	9.5	10.0	5.5	5.0	5.0
2	21.5	21.0	21.0	14.0	13.5	13.5	9.5	9.0	9.5	5.5	5.0	5.0
3	21.5	21.0	21.5	14.0	13.5	13.5	9.5	9.0	9.0	5.5	4.5	5.0
4	22.0	21.5	21.5	13.5	13.0	13.5	9.0	8.5	8.5	5.0	4.5	4.5
5	21.5	21.5	21.5	13.5	13.0	13.0	9.0	8.5	9.0	4.5	4.0	4.5
6	21.5	21.0	21.5	13.0	12.0	12.5	9.0	8.5	9.0	4.5	4.0	4.0
7	21.5	21.0	21.5	12.0	11.5	11.5	9.5	8.5	9.0	4.5	4.0	4.0
8	21.5	21.0	21.0	11.5	11.0	11.5	9.5	9.0	9.0	4.0	4.0	4.0
9	21.5	21.0	21.0	11.5	10.5	11.0	9.0	8.0	8.5	4.0	3.0	3.0
10	21.5	21.0	21.0	10.5	9.5	10.0	8.0	6.5	7.0	3.0	2.0	2.0
11	21.0	20.5	20.5	10.0	9.5	9.5	7.0	6.0	6.5	3.0	2.0	2.0
12	20.5	20.5	20.5	9.5	9.5	9.5	6.0	5.5	6.0	2.0	1.5	1.5
13	20.5	20.0	20.5	10.0	9.0	9.5	5.5	5.5	5.5	2.0	1.5	2.0
14	20.5	20.0	20.5	9.5	9.5	9.5	6.0	5.5	5.5	2.0	1.5	1.5
15	20.0	19.5	20.0	10.0	9.5	9.5	6.0	5.5	5.5	2.0	1.5	1.5
16	20.0	19.5	19.5	10.5	10.0	10.0	5.5	5.0	5.0	2.0	1.5	1.5
17	19.5	19.0	19.0	10.5	10.0	10.0	5.0	4.5	5.0	3.0	2.0	2.5
18	19.0	18.5	18.5	10.5	10.0	10.0	5.0	3.5	4.0	3.0	3.0	3.0
19	18.5	18.0	18.5	11.0	10.5	10.5	4.0	3.0	3.5	3.5	3.0	3.0
20	18.5	18.0	18.0	11.0	10.5	10.5	3.5	3.0	3.0	3.5	3.0	3.0
21	18.0	17.0	18.0	11.0	10.5	10.5	4.5	3.5	4.0	3.5	2.0	3.0
22	18.0	17.0	17.5	11.0	10.5	---	5.0	3.0	4.0	4.0	3.0	3.5
23	18.0	16.0	16.5	---	---	---	3.5	3.0	3.0	4.5	3.5	3.5
24	17.0	16.0	16.5	---	---	---	4.0	3.5	3.5	4.5	4.0	4.0
25	16.5	16.0	16.5	---	---	---	4.0	3.5	4.0	4.5	4.0	4.0
26	16.5	16.0	16.5	10.5	10.0	---	4.5	4.0	4.0	4.0	3.5	4.0
27	16.5	16.0	16.0	10.5	10.5	10.5	5.5	4.0	4.5	4.5	4.0	4.0
28	16.0	15.5	16.0	11.0	10.5	11.0	6.0	5.0	5.5	5.0	4.5	---
29	16.0	15.5	15.5	11.0	10.5	11.0	5.5	5.0	5.0	5.5	5.0	5.0
30	16.0	15.5	15.5	10.5	10.5	10.5	5.5	5.0	5.5	5.0	4.5	4.5
31	15.5	14.5	15.0	---	---	---	5.5	5.0	5.0	5.0	4.5	4.5
MONTH	22.0	14.5	19.0	14.5	9.0	11.0	10.5	3.0	6.0	5.5	1.5	3.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.5	4.5	5.0	4.5	4.5	6.0	5.5	5.5	17.0	16.0	16.5
2	5.0	4.0	4.5	5.5	5.0	5.0	6.0	5.5	5.5	17.0	16.5	16.5
3	5.0	4.0	4.5	5.5	5.5	5.5	8.0	6.0	6.5	17.0	16.5	17.0
4	4.5	3.0	3.5	6.0	5.5	5.5	9.0	7.0	8.0	17.0	16.0	16.5
5	3.0	1.5	2.0	6.5	6.0	6.5	10.0	9.0	9.5	16.5	15.5	16.0
6	1.5	1.5	1.5	7.0	6.5	7.0	10.5	9.5	10.0	16.0	15.0	15.5
7	1.5	1.0	1.5	8.5	7.0	7.5	11.0	8.5	9.0	15.0	14.5	---
8	1.5	1.5	1.5	8.5	8.0	8.0	9.0	8.5	8.5	---	---	---
9	2.0	1.5	1.5	8.0	7.0	7.5	8.5	8.0	8.0	---	---	---
10	2.0	1.5	1.5	7.0	6.5	7.0	8.0	6.5	7.0	---	---	---
11	3.0	1.5	2.0	7.0	6.5	6.5	7.0	6.5	7.0	---	---	---
12	3.0	1.0	2.0	6.5	6.0	6.5	8.5	7.0	7.5	---	---	---
13	4.0	1.5	2.5	6.0	6.0	6.0	9.0	8.0	8.5	---	---	---
14	4.0	3.0	3.0	6.0	5.5	5.5	10.0	9.0	9.5	15.0	14.5	---
15	4.0	2.0	3.0	6.0	5.5	5.5	10.5	10.0	10.0	15.0	14.0	14.5
16	3.5	3.0	3.5	6.0	5.5	5.5	10.5	10.0	10.0	16.0	14.5	15.5
17	4.5	3.5	3.5	6.0	5.5	6.0	10.5	10.0	---	18.0	16.0	17.0
18	4.5	3.5	4.0	6.0	5.5	5.5	---	---	---	19.0	18.0	18.5
19	5.0	4.0	4.5	6.5	5.5	6.0	---	---	---	19.5	18.5	19.0
20	6.0	4.0	4.5	6.5	6.0	6.0	---	---	---	20.0	19.0	19.5
21	4.5	4.0	4.0	6.5	6.5	6.5	---	---	---	20.0	19.5	19.5
22	5.5	4.5	5.0	7.0	6.5	6.5	---	---	---	20.0	19.5	20.0
23	6.0	5.0	5.5	7.0	6.0	6.5	---	---	---	20.5	20.0	20.0
24	6.0	5.0	5.5	7.0	6.0	6.5	14.0	13.5	---	20.5	20.0	20.5
25	5.0	4.5	5.0	6.5	6.0	6.5	14.0	13.5	13.5	21.0	20.5	20.5
26	4.5	4.0	4.0	6.5	6.0	6.5	14.0	13.5	13.5	20.5	20.5	20.5
27	4.5	3.5	4.0	6.5	6.0	6.5	14.5	13.5	14.0	20.5	19.5	20.0
28	4.5	4.0	4.0	6.5	6.5	6.5	14.5	14.0	14.0	20.0	19.5	19.5
29	---	---	---	6.5	6.0	6.5	15.5	14.5	14.5	19.5	19.0	---
30	---	---	---	6.5	6.0	6.0	16.5	15.0	15.5	---	---	---
31	---	---	---	6.0	5.5	6.0	---	---	---	19.5	19.0	---
MONTH	6.0	1.0	3.5	8.5	4.5	6.0	16.5	5.5	---	---	---	---

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	19.0	---	23.0	21.5	22.0	26.5	26.5	---	27.0	26.5	26.5
2	19.5	19.0	19.5	23.5	22.0	23.0	---	---	---	27.0	25.5	26.5
3	19.5	19.0	19.5	24.5	23.5	24.0	---	---	---	26.0	23.5	25.0
4	20.0	19.5	19.5	26.0	23.5	25.0	---	---	---	24.0	21.0	22.5
5	20.0	19.5	19.5	26.0	25.0	25.5	---	---	---	21.0	18.5	20.0
6	20.5	20.0	20.0	27.0	25.5	26.0	---	---	---	19.5	18.0	18.5
7	20.5	20.0	20.0	27.0	26.0	26.5	---	---	---	18.5	18.0	18.5
8	20.5	20.0	20.5	28.0	27.0	27.5	---	---	---	18.5	17.0	18.0
9	20.5	20.5	---	28.5	28.0	28.0	---	---	---	19.0	17.0	18.0
10	---	---	---	29.0	27.0	28.5	---	---	---	19.5	18.0	19.0
11	---	---	---	28.5	28.0	28.5	---	---	---	20.5	19.5	20.0
12	24.5	24.0	---	28.5	28.0	28.0	---	---	---	21.5	20.0	20.5
13	25.0	24.0	24.0	29.0	28.0	28.0	---	---	---	22.0	21.0	21.5
14	25.0	24.0	24.5	28.5	28.0	28.0	---	---	---	22.0	21.0	22.0
15	25.5	24.5	24.5	28.5	28.0	28.5	26.0	25.5	---	23.0	21.5	22.0
16	25.0	24.5	24.5	28.5	28.0	---	26.0	25.5	26.0	23.0	22.0	22.0
17	25.0	24.5	24.5	---	---	---	26.0	25.5	26.0	23.0	21.5	22.0
18	25.0	24.5	24.5	---	---	---	26.5	26.0	26.0	22.0	21.5	21.5
19	25.0	24.5	24.5	---	---	---	26.5	26.0	26.5	22.0	21.0	21.5
20	25.0	24.5	24.5	---	---	---	26.5	26.0	26.5	22.0	21.5	21.5
21	25.0	24.5	24.5	---	---	---	26.5	25.5	26.0	22.0	21.5	21.5
22	25.0	24.5	25.0	27.0	26.5	---	26.0	25.5	---	22.0	21.5	21.5
23	25.0	24.5	24.5	27.0	26.5	26.5	---	---	---	21.5	21.0	21.5
24	25.0	24.0	24.5	26.5	26.0	26.0	---	---	---	21.0	20.5	21.0
25	24.5	24.0	24.0	26.5	26.0	26.0	---	---	---	20.5	20.0	20.0
26	24.0	23.5	23.5	26.0	26.0	26.0	26.0	26.0	---	20.5	18.0	19.5
27	23.5	23.0	23.5	26.0	25.5	26.0	26.5	25.5	26.0	20.0	18.0	19.0
28	23.0	21.5	22.0	26.5	25.5	26.0	26.5	26.0	26.0	19.5	17.0	18.5
29	22.0	21.5	21.5	26.5	25.5	26.0	27.0	26.0	26.5	19.5	18.0	18.5
30	22.0	21.5	22.0	26.5	26.0	26.0	28.0	26.5	26.5	18.5	17.0	18.0
31	---	---	---	26.5	26.0	26.0	27.0	26.5	26.5	---	---	---
MONTH	25.5	19.0	23.0	29.0	21.5	---	---	---	---	27.0	17.0	21.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, water-quality recorder (40°02'05", 74°59'57") located on right bank in inactive building at Torresdale Filter Plant, 1.7 mi (2.7 km) downstream from Poquessing Creek.

DRAINAGE AREA.--7,781 mi^2 (20,200 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.
Water temperatures: October 1956 to September 1957, November 1960 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 591 micromhos Jan. 8; minimum, 90 micromhos Dec. 23.
Dissolved oxygen: Maximum, 14.4 mg/l Jan. 5; minimum, 0.7 mg/l June 22, July 21.
pH: Maximum, 7.8 Aug. 1; minimum, 6.0 Sept. 8.
Water temperatures: Maximum, 28.5°C July 11; minimum, 0.5°C Jan. 14, 15.

Period of record:
Specific conductance (1960-74): Maximum, 609 micromhos Jan. 18, 1970; minimum, 71 micromhos July 24, 1970.
Dissolved oxygen (1961-74): Maximum, 14.5 mg/l Feb. 4-5, 1964; minimum, 0.0 mg/l on many days during 1962 and 1965.
pH (1968-74): Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.
Water temperatures: Maximum, 29.0°C on many days in 1956, 1963, 1966, and 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB. 07...	--	3.9	770	--	80	--	11	4.0	5.4	1.3	26
MAR. 07...	1525	3.6	1400	--	100	--	12	4.2	6.6	1.6	31
APR. 04...	1220	4.6	--	--	--	--	13	4.1	6.6	1.6	30
MAY 02...	1200	2.8	--	540	--	70	15	4.8	7.2	1.8	41
JUNE 06...	1255	3.8	--	120	--	4400	16	5.8	11	1.8	48
JULY 11...	1245	.7	--	50	--	20	16	5.6	9.0	2.0	44
AUG. 08...	1240	2.8	--	10	--	0	15	5.2	8.5	2.9	34
SEP. 05...	1200	4.6	--	--	--	--	--	--	--	--	36

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 07...	0	21	20	9.1	.1	1.3	--	.01	--	1.3	--
MAR. 07...	0	25	23	11	.1	.93	--	.07	--	1.0	--
APR. 04...	0	25	23	11	.2	.92	--	.08	--	1.0	--
MAY 02...	0	34	25	10	.2	--	1.1	--	.15	--	1.2
JUNE 06...	0	39	26	10	.0	--	1.0	--	.08	--	1.1
JULY 11...	0	36	30	12	.2	--	.96	--	.14	--	1.1
AUG. 08...	--	28	27	11	.2	--	1.0	--	.20	--	1.2
SEP. 05...	--	30	21	10	.1	--	.74	--	.04	--	.78

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
FEB. 07...	.07	94	68	44	23	135	7.3	--	6	--	2.0
MAR. 07...	.09	95	78	47	22	147	7.0	--	9	--	5.0
APR. 04...	.07	--	79	49	25	145	7.0	--	22	10	5.0
MAY 02...	.08	104	93	57	24	170	7.0	15.5	--	--	6.6
JUNE 06...	.08	119	108	64	24	172	7.1	21.0	--	--	6.1
JULY 11...	.08	117	102	63	27	193	6.9	27.5	--	--	8.9
AUG. 08...	1.2	120	98	59	31	167	--	27.0	--	--	--
SEP. 05...	.08	114	--	--	--	149	--	22.5	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	219	210	214	219	201	213	233	218	221	---	---	---
2	226	213	218	218	196	203	223	199	217	---	---	---
3	236	202	218	224	192	199	220	204	212	298	128	---
4	233	214	218	207	188	194	221	195	204	430	159	213
5	221	209	214	230	184	196	284	188	210	317	158	186
6	218	207	210	217	187	197	211	186	197	319	156	182
7	220	208	211	220	183	194	195	187	---	255	162	182
8	230	211	216	242	183	194	---	---	---	591	170	277
9	233	214	218	212	184	191	---	---	---	464	217	254
10	233	216	221	220	186	193	182	142	---	503	219	281
11	233	217	222	225	189	195	150	136	141	305	214	248
12	231	219	223	216	190	196	164	120	138	306	212	240
13	237	221	226	227	193	200	162	111	122	310	205	230
14	245	220	226	247	198	206	229	112	135	275	202	227
15	242	219	225	332	201	212	143	119	130	319	203	217
16	255	219	227	367	205	218	161	128	136	327	207	228
17	238	199	223	251	210	217	523	142	192	321	205	229
18	242	218	225	238	212	218	305	156	194	287	199	216
19	239	218	224	233	199	---	256	154	179	290	198	219
20	241	219	226	---	---	---	377	152	179	298	208	231
21	243	219	228	---	---	---	180	158	167	322	203	227
22	241	224	229	---	---	---	166	121	140	243	206	218
23	255	227	235	---	---	---	240	90	111	276	209	221
24	256	233	238	---	---	---	169	96	111	270	204	219
25	251	233	238	---	---	---	173	103	121	278	197	217
26	268	233	241	239	217	---	206	113	132	277	178	202
27	263	231	238	262	217	224	164	118	132	367	174	199
28	244	229	235	348	217	234	187	120	---	239	171	188
29	248	198	229	274	214	223	---	---	---	301	169	186
30	229	198	221	234	209	218	---	---	---	216	145	175
31	226	215	221	---	---	---	---	---	---	321	134	163
MONTH	268	198	224	367	183	---	523	90	---	591	128	217

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	197	126	143	267	152	178	221	140	153	220	188	193
2	168	125	137	241	154	176	281	146	175	222	190	199
3	263	129	147	219	156	171	244	175	189	219	195	202
4	278	136	160	306	162	186	269	166	185	221	201	206
5	241	141	165	408	166	192	236	131	158	221	205	208
6	265	151	175	252	171	188	176	129	138	228	207	212
7	352	160	194	276	169	184	186	120	134	244	203	214
8	426	174	211	201	170	178	162	109	125	221	196	207
9	360	172	202	225	157	178	154	113	131	249	193	206
10	360	180	216	212	144	163	177	133	142	229	155	194
11	305	181	195	195	144	157	206	129	148	196	178	190
12	191	182	184	206	146	157	272	137	157	247	193	200
13	203	180	191	194	145	155	241	139	158	214	178	191
14	213	186	194	231	147	164	183	144	156	226	159	180
15	218	193	198	262	147	166	219	139	157	224	138	160
16	208	199	202	404	152	200	226	143	160	155	108	121
17	211	201	204	191	159	167	203	143	157	169	110	120
18	209	200	202	208	162	173	190	129	145	164	112	123
19	203	196	199	215	164	174	227	130	145	150	119	128
20	281	197	214	224	163	178	224	131	147	171	125	138
21	269	212	227	200	143	161	188	137	151	192	143	151
22	334	208	220	165	143	152	260	145	163	229	149	161
23	331	208	224	206	142	155	202	150	160	192	156	165
24	263	204	228	218	143	156	195	153	163	192	163	170
25	253	178	209	186	129	147	207	161	170	201	169	176
26	313	167	201	179	120	139	220	164	175	205	177	183
27	352	144	189	198	127	141	232	170	190	204	182	187
28	253	141	171	179	130	143	190	186	---	235	186	194
29	---	---	---	168	133	141	225	187	---	215	192	196
30	---	---	---	220	100	148	235	188	196	220	195	203
31	---	---	---	162	103	139	---	---	---	233	200	206
MONTH	426	125	193	408	100	165	281	109	158	249	108	180

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	235	203	210	220	206	209	308	279	295	206	198	202
2	232	206	211	310	206	217	342	309	328	210	201	205
3	228	208	214	310	211	223	351	187	252	209	201	207
4	231	215	222	244	213	219	229	187	210	206	163	192
5	250	224	228	260	213	221	230	194	212	177	143	161
6	242	217	225	228	199	217	209	188	199	150	129	142
7	233	208	220	228	210	216	213	179	194	218	133	144
8	235	202	215	222	209	212	204	177	190	138	99	132
9	260	199	213	238	209	216	197	175	187	168	128	133
10	232	177	193	225	206	213	204	166	185	167	131	138
11	196	175	182	224	202	210	193	178	185	216	135	149
12	211	175	184	221	199	206	211	195	---	235	141	152
13	205	178	185	221	198	206	214	198	204	251	146	155
14	209	180	186	224	197	205	225	202	208	191	148	154
15	207	183	189	223	199	206	224	199	205	159	151	154
16	214	186	192	224	199	208	222	202	207	167	154	158
17	213	189	197	227	204	211	245	205	212	172	160	164
18	222	198	206	234	208	214	224	199	215	181	164	169
19	222	205	213	235	211	217	228	199	220	186	169	174
20	242	213	220	234	213	219	288	219	238	219	174	187
21	237	199	222	242	213	221	259	239	243	251	191	199
22	237	199	225	237	216	224	324	239	249	221	194	200
23	242	199	221	244	219	231	276	210	235	262	197	222
24	229	208	219	240	219	232	229	217	225	245	232	237
25	226	211	---	243	232	237	227	216	221	251	199	235
26	---	---	---	250	199	239	222	195	208	258	229	241
27	220	200	---	252	239	244	217	193	198	262	241	246
28	223	198	204	256	239	247	206	192	197	360	245	257
29	239	203	211	267	246	251	210	192	198	252	199	235
30	247	206	212	264	245	257	219	193	197	251	235	245
31	---	---	---	278	265	271	207	195	199	---	---	---
MONTH	260	175	208	310	197	223	351	166	217	360	99	186

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	4.9	5.8	9.8	7.7	8.3	---	---	---	---	---	---
2	6.9	5.1	6.0	8.8	8.1	8.3	---	---	---	---	---	---
3	7.4	5.2	6.0	9.0	8.2	8.4	---	---	---	12.9	12.5	---
4	6.5	5.2	5.6	9.1	8.2	8.5	---	---	---	13.1	12.4	12.8
5	7.0	5.2	5.6	9.1	7.2	8.1	---	---	---	14.4	13.3	13.6
6	6.3	4.8	5.6	9.0	7.6	8.1	---	---	---	14.0	13.5	13.8
7	6.2	4.8	5.6	9.2	8.2	8.6	---	---	---	14.0	13.3	13.7
8	6.3	3.7	5.3	10.1	8.1	8.7	---	---	---	---	---	---
9	5.8	3.5	4.8	9.6	8.3	8.9	---	---	---	---	---	---
10	6.2	3.7	4.7	10.2	8.8	9.3	---	---	---	---	---	---
11	5.9	3.5	4.7	10.2	8.8	9.4	---	---	---	---	---	---
12	5.7	3.0	4.6	10.3	8.9	9.6	---	---	---	---	---	---
13	6.6	3.2	4.9	10.6	9.1	9.7	---	---	---	---	---	---
14	6.6	4.6	5.6	10.3	9.3	9.8	---	---	---	---	---	---
15	6.8	4.9	5.6	10.2	9.1	9.7	---	---	---	---	---	---
16	7.0	4.4	5.7	10.5	9.4	10.1	---	---	---	---	---	---
17	7.0	4.6	5.9	10.8	10.2	10.5	---	---	---	---	---	---
18	7.6	3.9	6.1	11.1	10.3	10.7	---	---	---	---	---	---
19	7.3	4.3	6.2	11.1	9.4	---	---	---	---	---	---	---
20	7.4	5.1	6.2	---	---	---	---	---	---	---	---	---
21	7.0	5.1	6.3	---	---	---	---	---	---	---	---	---
22	6.8	4.8	6.1	---	---	---	---	---	---	---	---	---
23	6.5	5.2	5.9	---	---	---	---	---	---	---	---	---
24	6.3	4.7	5.6	---	---	---	---	---	---	---	---	---
25	6.7	4.3	5.4	---	---	---	---	---	---	---	---	---
26	6.8	3.3	5.2	---	---	---	---	---	---	---	---	---
27	6.8	4.6	5.7	---	---	---	---	---	---	---	---	---
28	7.8	5.0	6.3	---	---	---	---	---	---	---	---	---
29	10.0	4.2	7.2	---	---	---	---	---	---	---	---	---
30	8.7	7.1	7.9	---	---	---	---	---	---	---	---	---
31	8.4	7.4	7.7	---	---	---	---	---	---	---	---	---
MONTH	10.0	3.0	5.8	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.8	10.1	11.4	8.2	7.5	7.9
2	---	---	---	---	---	---	12.0	10.6	---	8.4	7.5	7.9
3	---	---	---	---	---	---	---	---	---	7.8	7.1	7.6
4	---	---	---	---	---	---	---	---	---	7.6	6.9	7.3
5	---	---	---	11.9	10.9	---	---	---	---	8.0	6.7	7.2
6	---	---	---	11.5	10.6	11.0	---	---	---	7.8	6.9	7.3
7	---	---	---	11.1	9.9	10.6	---	---	---	8.1	6.3	7.2
8	---	---	---	10.4	9.8	10.1	---	---	---	8.6	6.2	7.5
9	---	---	---	10.2	10.0	10.1	11.1	10.6	---	9.0	6.3	8.0
10	---	---	---	10.4	9.7	10.0	11.7	10.7	11.3	8.6	7.0	7.9
11	---	---	---	10.8	9.8	10.5	11.9	10.5	11.6	8.5	7.2	7.9
12	---	---	---	11.2	10.2	10.8	11.8	9.5	11.3	8.3	7.4	7.8
13	---	---	---	12.1	11.3	11.6	11.4	9.3	10.8	8.0	7.3	7.7
14	---	---	---	12.8	11.4	12.2	10.7	8.7	10.0	8.3	7.5	8.0
15	---	---	---	12.4	11.3	12.0	9.9	8.5	9.5	8.5	7.6	8.1
16	---	---	---	12.4	9.2	11.5	9.7	8.5	9.4	8.6	7.8	8.2
17	---	---	---	12.4	10.8	11.9	9.5	9.1	9.3	8.2	7.3	7.7
18	---	---	---	13.1	11.5	12.4	9.5	9.0	9.3	7.6	6.8	7.2
19	---	---	---	12.1	10.9	11.7	9.3	8.6	9.1	7.2	6.7	7.0
20	---	---	---	11.8	11.0	11.4	9.6	8.8	9.2	7.3	6.5	6.9
21	---	---	---	11.9	10.9	11.5	9.4	8.9	9.2	7.4	6.2	6.9
22	---	---	---	11.5	10.6	11.2	9.5	8.7	9.2	7.2	5.9	6.8
23	---	---	---	11.3	10.4	10.9	9.3	8.5	9.1	6.5	5.5	6.1
24	---	---	---	11.5	9.4	10.8	9.4	9.0	9.2	6.5	4.4	5.8
25	---	---	---	12.5	11.2	11.7	9.1	8.6	8.9	6.5	4.6	5.8
26	---	---	---	12.2	10.8	11.7	8.9	8.3	8.5	6.6	4.8	5.9
27	---	---	---	11.9	10.9	11.6	8.7	7.9	8.3	6.7	5.4	6.0
28	---	---	---	11.4	10.4	11.1	8.6	7.9	---	6.5	5.3	5.8
29	---	---	---	11.9	11.2	11.5	8.7	8.2	---	6.3	4.9	5.6
30	---	---	---	12.2	11.3	11.7	8.5	7.7	8.2	5.9	4.3	5.2
31	---	---	---	11.9	11.2	11.4	---	---	---	6.1	4.4	5.3
MONTH	---	---	---	13.1	9.2	11.3	12.0	7.7	---	9.0	4.3	7.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.9	4.5	5.2	6.2	4.9	5.5	2.9	1.5	2.2	3.7	2.9	3.3
2	6.2	4.4	5.3	7.0	4.4	5.5	3.1	1.0	2.0	3.7	2.6	3.0
3	6.1	4.1	5.4	6.6	4.8	5.7	3.4	0.9	2.5	4.4	2.7	3.6
4	6.4	4.5	5.6	6.3	4.8	5.7	2.8	1.8	2.3	7.3	3.5	5.1
5	6.2	4.8	5.7	7.1	5.2	5.9	4.2	1.6	2.8	7.2	6.2	---
6	6.4	5.0	5.6	6.3	4.8	5.5	3.6	2.4	3.0	---	---	---
7	6.8	4.7	6.1	6.7	4.3	5.4	3.2	2.0	2.5	---	---	---
8	6.5	4.6	5.9	7.1	4.4	5.7	2.8	1.7	2.3	---	---	---
9	6.1	5.1	5.6	7.4	4.6	5.8	3.8	1.8	2.4	---	---	---
10	5.8	4.9	5.3	7.8	5.2	6.2	3.0	1.3	2.1	6.3	5.9	---
11	5.5	4.2	4.8	8.1	5.2	6.4	1.9	1.4	1.7	6.3	5.6	6.0
12	5.4	4.3	4.8	8.5	5.6	6.7	4.1	2.7	---	6.5	5.3	5.8
13	5.5	3.6	4.5	8.3	5.3	6.7	3.7	1.6	2.9	7.1	5.3	5.7
14	5.5	3.1	4.3	7.7	4.2	6.2	4.1	2.0	2.7	5.9	5.0	5.3
15	5.8	3.0	4.3	6.3	3.3	5.3	4.4	1.9	3.1	5.5	4.3	5.1
16	5.2	3.1	4.3	4.9	2.6	4.1	4.8	1.6	3.3	5.4	4.3	4.9
17	4.5	3.0	3.8	3.8	2.4	3.2	4.5	1.8	3.6	4.9	4.0	4.5
18	4.0	2.4	3.4	4.2	1.6	3.0	4.5	2.5	3.5	5.1	3.5	4.2
19	4.0	2.1	3.3	3.7	1.4	2.7	4.4	2.6	3.3	4.6	3.1	3.9
20	4.1	1.9	3.1	3.9	1.0	2.5	4.0	2.3	2.9	5.1	3.2	3.9
21	3.5	1.4	2.6	3.6	0.7	2.3	4.0	2.1	3.0	5.5	3.6	4.3
22	3.1	0.7	2.1	3.6	1.4	2.7	3.6	2.3	2.7	5.2	3.6	4.4
23	4.0	1.3	2.5	4.8	1.6	3.0	3.4	1.7	2.4	5.9	3.7	4.6
24	4.5	1.4	2.8	3.4	1.5	2.7	3.3	1.9	2.3	5.7	3.8	4.9
25	3.9	1.9	---	3.7	1.5	2.5	2.8	1.7	2.0	6.2	4.2	5.0
26	---	---	---	3.9	1.3	2.3	4.6	1.5	2.6	5.7	4.3	5.0
27	4.5	2.2	---	3.8	1.6	2.4	5.8	2.8	3.7	5.7	4.3	4.9
28	5.9	3.2	4.5	4.4	1.5	2.4	4.8	3.1	3.9	6.6	4.0	4.9
29	6.7	3.6	5.2	4.9	1.9	2.8	5.5	2.9	3.9	7.3	3.5	5.4
30	7.0	4.6	5.5	3.8	1.6	2.9	4.6	3.4	3.9	7.3	5.9	6.7
31	---	---	---	3.3	1.8	2.5	4.1	3.0	3.5	---	---	---
MONTH	7.0	0.7	4.5	8.5	0.7	4.3	5.8	0.9	2.8	7.3	2.6	4.8

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	6.6	6.9	6.7	6.8	7.1	7.1	7.1	---	---	---
2	6.8	6.7	6.8	6.8	6.7	6.7	7.1	7.1	7.1	---	---	---
3	6.9	6.7	6.8	6.7	6.6	6.7	7.1	7.1	7.1	6.7	6.5	---
4	6.9	6.8	6.8	6.7	6.6	6.6	7.1	7.0	7.1	6.8	6.6	6.7
5	7.0	6.8	6.9	6.7	6.6	6.6	7.1	6.9	7.0	6.8	6.6	6.7
6	6.9	6.9	6.9	6.8	6.6	6.7	6.9	6.8	6.8	6.7	6.6	6.7
7	7.0	6.9	6.9	6.7	6.6	6.7	6.8	6.8	---	7.3	6.6	6.8
8	7.0	6.9	6.9	6.8	6.6	6.7	---	---	---	7.3	6.7	7.1
9	7.0	6.9	6.9	6.7	6.6	6.7	---	---	---	7.3	6.7	7.0
10	7.0	6.9	7.0	6.8	6.7	6.7	6.7	6.6	---	7.2	6.8	6.9
11	7.0	6.8	6.9	6.7	6.6	6.7	6.6	6.6	6.6	7.1	6.7	6.8
12	6.9	6.8	6.9	6.8	6.6	6.7	6.6	6.5	6.6	7.0	6.7	6.8
13	7.0	6.8	6.9	6.8	6.7	6.7	6.6	6.5	6.5	6.8	6.7	6.8
14	7.0	6.9	6.9	6.8	6.7	6.7	6.7	6.5	6.6	6.9	6.7	6.8
15	7.0	6.7	6.8	6.9	6.7	6.7	6.6	6.5	6.6	7.2	6.7	7.0
16	6.8	6.6	6.7	7.0	6.7	6.8	6.6	6.5	6.6	7.3	6.8	7.2
17	6.7	6.6	6.6	6.9	6.8	6.8	6.9	6.5	6.6	7.2	6.8	7.1
18	6.7	6.5	6.6	6.9	6.8	6.8	6.8	6.6	6.7	7.2	7.1	7.1
19	6.6	6.5	6.6	7.0	6.8	---	6.7	6.6	6.7	7.2	7.0	7.1
20	6.7	6.5	6.6	---	---	---	6.8	6.6	6.7	7.3	7.1	7.2
21	6.6	6.5	6.6	---	---	---	6.7	6.4	6.6	7.3	7.2	7.2
22	6.6	6.5	6.6	---	---	---	6.6	6.5	6.5	7.2	6.5	6.7
23	6.7	6.5	6.6	---	---	---	6.9	6.5	---	6.6	6.5	6.6
24	6.7	6.6	6.7	---	---	---	6.6	6.4	6.5	7.0	6.6	6.7
25	6.7	6.6	6.6	---	---	---	6.7	6.5	6.5	7.1	6.6	6.9
26	6.7	6.6	6.6	7.0	6.9	---	6.7	6.5	6.6	6.6	6.5	6.6
27	6.7	6.6	6.6	7.0	6.9	6.9	6.6	6.5	6.5	6.9	6.5	6.6
28	6.7	6.6	6.7	7.1	6.9	7.0	6.6	6.5	---	6.6	6.6	6.6
29	6.8	6.6	6.7	7.1	7.0	7.0	---	---	---	6.6	6.5	6.5
30	6.8	6.7	6.7	7.1	7.0	7.1	---	---	---	6.6	6.5	6.6
31	6.8	6.7	6.7	---	---	---	---	---	---	6.7	6.5	6.5
MONTH	7.0	6.5	6.7	7.1	6.6	---	7.1	6.4	---	7.3	6.5	6.8

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.4	6.5	6.7	6.5	6.6	6.7	6.6	6.7	7.0	6.8	6.9
2	6.5	6.5	6.5	6.7	6.6	6.6	6.9	6.5	6.7	7.0	6.9	6.9
3	6.7	6.5	6.5	6.7	6.5	6.6	7.0	6.5	6.7	6.9	6.8	6.9
4	6.7	6.5	6.5	6.9	6.6	6.7	7.1	6.5	6.8	6.9	6.8	6.9
5	6.7	6.6	6.6	7.5	6.7	7.1	7.1	7.0	7.1	7.0	6.8	6.9
6	6.7	6.6	6.6	7.6	7.0	7.5	7.1	7.0	7.0	7.0	6.8	6.9
7	6.7	6.6	6.6	7.5	7.1	7.3	7.2	7.0	7.0	6.9	6.6	6.8
8	6.7	6.6	6.6	7.5	7.1	7.2	7.1	7.0	7.0	6.8	6.6	6.7
9	6.7	6.6	6.7	7.2	7.1	7.2	7.1	6.6	7.0	6.9	6.5	6.7
10	6.8	6.6	6.7	7.5	7.1	7.2	6.8	6.6	6.6	6.7	6.4	6.6
11	7.1	6.7	7.0	7.2	7.1	7.1	6.7	6.6	6.7	6.7	6.6	6.7
12	7.1	7.0	7.1	7.2	7.1	7.2	6.8	6.6	6.7	6.8	6.6	6.7
13	7.1	7.0	7.0	7.3	6.7	7.0	6.7	6.6	6.7	6.7	6.6	6.6
14	7.1	7.0	7.1	7.3	7.1	7.2	6.7	6.6	6.7	6.9	6.6	6.7
15	7.1	7.0	7.1	7.4	7.2	7.3	6.8	6.6	6.7	6.9	6.7	6.8
16	7.1	7.0	7.1	7.5	7.2	7.3	6.8	6.7	6.7	6.7	6.6	6.7
17	7.1	7.0	7.1	7.3	7.2	7.3	6.8	6.7	6.7	6.7	6.5	6.6
18	7.1	7.1	7.1	7.3	6.8	7.2	6.7	6.5	6.7	6.8	6.6	6.6
19	7.1	7.1	7.1	7.3	6.9	7.0	6.7	6.5	6.6	6.8	6.6	6.7
20	7.1	6.6	6.9	7.0	6.9	6.9	6.8	6.5	6.6	6.9	6.6	6.7
21	6.7	6.7	6.7	6.9	6.7	6.9	6.8	6.6	6.7	6.9	6.6	6.8
22	6.9	6.7	6.8	6.9	6.7	6.9	7.0	6.7	6.8	6.9	6.7	6.8
23	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
24	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.6	6.7
25	6.9	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.9	6.6	6.8
26	6.8	6.6	6.7	6.8	6.5	6.7	6.9	6.7	6.8	7.2	6.8	7.1
27	6.7	6.5	6.6	6.8	6.6	6.7	6.9	6.7	6.8	7.0	6.7	---
28	6.6	6.5	6.5	6.9	6.6	6.7	6.9	6.8	---	6.9	6.8	6.9
29	---	---	---	6.8	6.7	6.7	7.0	6.8	---	6.9	6.8	6.9
30	---	---	---	6.8	6.7	6.8	7.0	6.8	6.9	7.0	6.8	6.9
31	---	---	---	6.8	6.4	6.7	---	---	---	6.9	6.7	6.8
MONTH	7.1	6.4	6.8	7.6	6.4	7.0	7.2	6.5	6.8	7.2	6.4	6.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.8	6.6	6.6	6.6	7.8	6.8	7.0	6.4	6.3	6.3
2	6.8	6.7	6.8	6.9	6.5	6.6	7.1	6.8	6.9	6.4	6.3	6.4
3	6.9	6.7	6.8	6.9	6.6	6.7	7.4	6.9	---	6.4	6.3	6.4
4	7.2	6.6	6.9	6.8	6.6	6.7	---	---	---	6.3	6.2	6.3
5	7.4	6.9	7.1	6.9	6.6	6.7	6.8	6.6	---	6.2	6.2	6.2
6	---	---	---	6.8	6.6	6.7	6.9	6.6	---	6.2	6.1	6.1
7	---	---	---	6.8	6.6	6.7	---	---	---	6.3	6.1	6.2
8	6.9	6.6	---	6.9	6.6	6.7	---	---	---	6.2	6.0	6.2
9	7.0	6.5	6.7	7.2	6.7	6.9	---	---	---	6.3	6.2	6.3
10	6.9	6.3	6.4	7.2	6.8	7.0	---	---	---	6.4	6.2	6.3
11	6.3	6.2	6.2	7.4	6.8	7.0	---	---	---	6.5	6.3	6.3
12	6.4	6.2	6.2	7.6	6.9	7.1	---	---	---	6.6	6.3	6.4
13	6.3	6.2	6.2	7.4	6.8	7.0	---	---	---	6.9	6.3	6.4
14	6.4	6.2	6.2	7.1	6.7	6.9	6.7	6.5	---	6.6	6.4	6.4
15	6.4	6.2	6.3	6.9	6.6	6.8	6.7	6.5	6.6	6.5	6.4	6.5
16	6.4	6.2	6.3	6.8	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.6
17	6.5	6.2	6.4	6.8	6.6	6.7	6.7	6.5	6.6	6.7	6.5	6.6
18	6.5	6.4	6.5	6.8	6.7	6.7	6.6	6.5	6.6	6.7	6.6	6.6
19	6.6	6.4	6.5	6.8	6.7	6.8	6.7	6.5	6.6	6.7	6.6	6.6
20	6.6	6.4	6.5	7.4	6.7	6.8	6.8	6.6	6.6	6.7	6.5	6.6
21	6.6	6.5	6.6	6.8	6.7	6.8	6.8	6.5	6.7	6.8	6.5	6.6
22	6.6	6.5	6.5	6.9	6.7	6.8	6.9	6.7	6.8	6.7	6.5	6.6
23	6.6	6.5	6.5	6.9	6.7	6.8	6.9	6.8	6.8	6.6	6.2	6.4
24	6.6	6.4	6.5	6.9	6.7	6.8	6.7	6.6	6.7	6.4	6.2	6.3
25	6.9	6.3	6.6	6.9	6.7	6.8	6.5	6.4	6.5	6.4	6.2	6.3
26	7.0	6.4	---	7.2	6.8	6.9	6.5	6.3	6.4	6.4	6.3	6.3
27	6.8	6.7	---	7.2	7.0	7.1	6.6	6.4	6.4	6.4	6.3	6.3
28	6.8	6.7	6.7	7.3	7.0	7.1	6.5	6.4	6.4	6.6	6.3	6.4
29	6.8	6.6	6.6	7.2	7.0	7.1	6.4	6.3	6.4	6.6	6.3	6.4
30	6.8	6.6	6.6	7.3	6.7	7.0	6.4	6.3	6.3	6.9	6.5	6.7
31	---	---	---	7.1	6.8	7.0	6.4	6.3	6.3	---	---	---
MONTH	7.4	6.2	6.5	7.6	6.5	6.8	---	---	---	6.9	6.0	6.4

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	20.0	20.5	15.0	14.0	14.5	10.5	9.5	10.0	---	---	---
2	21.0	20.5	20.5	14.5	13.0	14.0	10.5	9.5	10.0	---	---	---
3	21.5	20.5	21.0	14.0	13.5	13.5	10.0	9.0	9.5	4.0	4.0	---
4	22.0	20.5	21.5	13.5	12.0	13.0	10.0	9.0	9.5	4.5	4.0	4.0
5	22.0	21.0	21.0	13.0	11.5	12.5	11.0	9.5	10.0	4.0	3.0	3.5
6	21.5	20.5	21.0	12.0	10.0	11.5	11.5	9.5	10.0	3.5	3.5	3.5
7	21.0	20.5	21.0	11.5	10.0	11.0	9.5	8.5	---	3.5	3.0	3.5
8	21.0	20.5	21.0	11.0	10.0	10.5	---	---	---	3.5	1.5	2.5
9	21.0	20.0	21.0	11.0	9.5	10.5	---	---	---	3.0	2.0	2.5
10	21.0	20.5	21.0	10.5	9.0	10.0	8.5	7.0	---	3.0	2.0	2.0
11	21.0	19.5	20.5	10.0	9.0	9.5	8.0	6.0	7.0	3.0	1.5	2.0
12	20.5	19.5	20.0	10.0	9.0	9.5	6.5	6.0	6.0	1.5	1.0	1.5
13	20.5	19.5	20.0	10.0	9.0	9.5	6.0	5.5	5.5	2.0	1.5	1.5
14	20.0	19.0	19.5	10.0	9.0	9.5	7.0	5.5	6.0	1.5	0.5	1.0
15	20.0	19.0	19.5	11.0	9.5	10.0	6.0	5.5	5.5	1.5	0.5	1.0
16	19.5	18.5	19.0	11.5	9.5	10.0	5.5	4.5	5.0	3.5	1.0	1.5
17	19.0	17.0	18.0	9.5	9.0	9.0	5.0	3.5	4.0	3.5	1.5	2.0
18	18.0	16.5	17.0	9.0	8.0	9.0	4.0	3.0	3.5	1.5	1.0	1.0
19	18.0	16.0	16.5	9.0	8.5	---	3.5	2.0	3.0	3.0	1.5	1.5
20	17.0	16.0	16.5	---	---	---	3.5	2.0	3.0	3.0	1.5	2.0
21	17.0	15.5	16.5	---	---	---	4.0	3.0	3.5	5.0	2.0	3.0
22	17.0	16.0	16.5	---	---	---	4.0	2.0	3.5	4.5	3.0	4.0
23	17.0	16.0	16.5	---	---	---	2.0	1.5	1.5	5.5	4.0	4.5
24	17.0	16.0	16.5	---	---	---	2.0	1.5	1.5	5.5	4.5	5.0
25	17.0	16.0	16.5	---	---	---	3.0	1.5	2.0	6.5	5.0	5.5
26	17.0	16.0	16.5	10.5	10.0	---	5.5	3.0	3.5	6.0	4.5	5.0
27	17.0	15.5	16.5	10.5	10.0	10.5	8.0	4.0	5.0	9.5	5.0	6.0
28	16.5	15.5	16.0	13.0	10.5	11.0	6.5	4.5	---	7.0	5.5	6.0
29	16.5	14.0	15.5	11.5	10.0	11.0	---	---	---	8.5	5.5	6.5
30	15.5	15.0	15.5	10.5	10.0	10.5	---	---	---	8.5	6.5	7.0
31	15.5	14.5	15.0	---	---	---	---	---	---	9.0	6.0	6.5
MONTH	22.0	14.0	18.5	15.0	8.0	---	11.5	1.5	---	9.5	0.5	3.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.5	5.5	5.5	4.5	4.5	7.0	4.5	5.5	17.0	16.0	16.0
2	5.5	5.0	5.5	5.5	4.5	4.5	8.0	5.0	5.5	17.0	16.0	16.0
3	5.5	4.0	5.0	6.0	4.5	5.0	9.0	5.0	6.0	16.5	16.0	16.0
4	4.5	3.0	4.0	9.5	5.5	6.0	11.0	6.5	7.5	17.0	16.0	16.5
5	4.0	2.0	3.0	10.5	6.5	7.0	12.0	8.5	9.5	17.0	16.0	16.5
6	3.0	1.5	2.0	8.5	7.0	7.5	10.5	9.5	10.0	16.5	15.5	16.5
7	2.0	1.5	2.0	9.0	7.0	8.5	10.5	9.5	10.0	16.5	15.0	16.0
8	2.0	1.0	1.5	9.0	8.5	9.0	9.5	8.5	9.0	16.5	15.0	15.5
9	2.0	1.0	1.5	9.0	8.5	8.5	8.5	8.0	8.0	16.5	15.0	15.5
10	2.0	1.0	1.5	9.5	8.5	9.0	8.5	6.5	7.0	16.0	15.0	15.5
11	2.0	1.0	1.5	9.0	7.0	8.0	9.5	6.5	7.0	16.5	15.0	15.5
12	2.0	1.5	2.0	9.0	7.0	8.0	10.5	6.5	7.5	17.0	15.5	15.5
13	3.0	2.0	2.5	8.0	6.5	6.5	10.5	8.0	8.5	16.0	15.0	15.5
14	3.5	3.0	3.0	7.0	5.5	6.0	12.0	9.0	10.0	18.0	14.5	15.5
15	4.0	3.5	3.5	8.5	6.0	6.5	11.5	10.0	10.5	18.0	15.0	15.5
16	4.0	3.5	3.5	9.5	6.0	7.0	11.5	10.0	10.5	16.5	15.5	16.0
17	4.0	4.0	4.0	7.0	6.0	6.5	11.5	10.5	11.0	18.5	16.0	17.0
18	4.0	3.5	4.0	6.5	5.0	6.0	12.0	11.0	11.5	19.5	17.0	18.5
19	4.0	3.5	4.0	7.0	6.0	6.5	12.0	11.0	11.5	20.0	18.5	19.0
20	5.0	4.0	4.5	7.0	6.5	6.5	12.0	11.0	11.5	20.0	19.0	19.5
21	5.5	4.5	5.0	7.0	6.5	6.5	13.0	11.0	12.0	20.5	19.5	20.0
22	8.0	5.0	5.5	8.0	6.5	7.0	14.0	11.5	12.5	21.0	20.0	20.5
23	7.0	5.5	6.0	8.5	6.5	7.5	14.5	13.0	13.0	21.0	20.5	20.5
24	7.0	4.5	6.0	9.0	6.5	7.5	13.5	12.0	13.0	21.5	20.5	21.0
25	6.0	5.0	5.5	7.0	6.0	6.5	14.0	12.0	13.5	21.5	20.5	21.0
26	6.0	4.0	4.5	7.0	6.0	6.5	15.0	13.5	14.0	21.0	20.5	20.5
27	5.0	3.5	4.0	7.0	5.5	6.0	15.5	13.5	14.5	20.5	20.0	20.0
28	6.0	3.5	4.0	7.0	4.5	6.0	15.5	15.0	---	20.5	18.5	20.0
29	---	---	---	6.0	5.5	5.5	17.0	15.5	---	20.0	19.5	20.0
30	---	---	---	6.0	5.0	5.5	17.0	15.5	16.0	20.5	19.5	20.0
31	---	---	---	6.0	5.0	5.5	---	---	---	20.5	19.5	20.0
MONTH	8.0	1.0	3.5	10.5	4.5	6.5	17.0	4.5	10.0	21.5	14.5	18.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.5	20.0	23.0	21.5	22.0	26.5	26.0	26.0	28.0	26.5	27.5
2	20.0	18.5	19.5	23.5	22.0	22.5	26.5	25.0	26.0	27.0	26.5	27.0
3	20.0	19.0	19.5	24.5	23.0	23.5	26.5	25.5	26.0	26.5	25.5	26.5
4	20.5	19.5	20.0	24.5	23.5	24.0	26.5	25.5	26.0	26.0	23.0	25.0
5	21.0	20.0	20.5	25.0	24.0	24.5	26.5	24.5	26.0	24.0	21.0	22.5
6	21.5	20.5	21.0	25.5	24.0	24.5	27.0	25.5	26.0	21.5	20.0	20.5
7	20.5	20.5	20.5	26.5	24.5	25.5	26.0	25.5	26.0	20.0	18.5	19.5
8	21.0	20.0	20.5	27.0	25.0	26.0	25.5	25.0	25.5	20.0	18.5	19.0
9	23.0	20.5	21.0	28.0	25.5	26.5	26.0	25.0	25.5	19.5	19.0	19.0
10	24.0	21.0	22.0	28.0	26.5	27.0	25.5	23.5	25.0	20.0	19.0	19.5
11	24.0	22.0	23.0	28.5	26.5	27.0	26.0	24.0	25.0	20.5	19.5	20.0
12	24.0	23.0	23.0	28.0	26.0	26.5	25.5	24.0	25.0	21.5	20.0	20.5
13	24.5	22.0	23.0	28.0	26.0	26.5	25.5	24.5	25.0	23.0	20.5	21.0
14	24.5	22.0	23.5	28.0	26.0	26.5	26.0	25.0	25.5	22.0	21.0	21.5
15	24.5	23.0	23.5	28.0	26.5	27.0	26.0	25.0	25.5	22.0	21.0	21.5
16	24.0	23.5	23.5	28.0	26.5	27.0	26.0	25.5	25.5	22.0	21.5	21.5
17	25.0	23.5	24.0	28.0	26.5	27.0	26.0	25.0	25.5	23.0	21.5	22.0
18	25.0	24.5	24.5	27.0	26.5	26.5	26.5	25.5	26.0	23.0	21.5	22.0
19	25.0	24.5	24.5	27.0	26.5	26.5	27.0	26.0	26.0	23.5	21.5	22.5
20	25.5	24.5	25.0	27.0	26.0	26.5	28.0	26.0	26.5	23.5	22.0	22.5
21	25.5	25.0	25.0	27.0	26.0	26.0	27.0	26.0	26.5	23.5	22.0	23.0
22	26.0	25.0	25.5	27.0	25.5	26.0	27.0	26.5	26.5	22.0	21.5	22.0
23	25.0	23.5	24.5	26.5	25.5	26.0	26.5	26.0	26.5	21.5	20.5	21.0
24	24.5	23.5	24.0	26.0	25.0	25.5	27.0	26.0	26.5	21.0	19.5	20.5
25	24.0	23.0	23.5	26.0	24.5	25.0	27.0	25.5	26.5	20.5	19.5	20.0
26	24.0	23.0	23.5	25.5	24.5	25.0	26.5	25.5	26.0	20.5	19.5	20.0
27	24.0	23.0	23.5	26.0	24.5	25.0	26.5	26.0	26.0	20.5	19.5	20.0
28	23.0	21.0	21.5	26.0	25.0	25.5	27.0	26.0	26.5	20.5	19.5	20.0
29	22.0	20.0	21.5	26.5	25.5	26.0	27.0	26.5	26.5	20.5	19.5	20.0
30	22.0	21.0	21.5	26.5	25.0	26.0	28.0	26.5	27.0	19.5	18.5	19.0
31	---	---	---	26.5	26.0	26.0	27.0	26.5	27.0	---	---	---
MONTH	26.0	18.5	22.5	28.5	21.5	25.5	28.0	23.5	26.0	28.0	18.5	21.5

01467100 DELAWARE RIVER AT LEHIGH AVENUE, PHILADELPHIA, PA.

LOCATION.--Lat 39°58'09", long 75°06'41", Philadelphia County, at center of river on a line midway between piers 14 and 18 Port Richmond Terminal through channel station +5.0 to a pierhead line on west bank of Petty Island.

DRAINAGE AREA.--7,940 mi^2 (20,600 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1968, October 1968 to September 1970 (partial-record station), February to September 1974.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1262.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB.											
07...	--	3.9	820	--	80	--	11	3.7	6.6	1.4	22
APR.											
04...	1130	4.8	--	--	--	--	13	4.4	7.9	1.9	30
MAY											
02...	1120	3.2	--	850	--	140	15	4.9	9.0	1.9	39
JUNE											
06...	1210	3.8	--	80	--	40	16	5.7	9.4	2.2	50
JULY											
11...	1135	.1	--	30	--	0	17	6.2	12	2.4	47
AUG.											
08...	1120	2.3	--	0	--	0	20	6.6	15	3.4	45
SEP.											
05...	1110	4.0	--	--	--	--	--	--	--	--	43

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB.											
07...	0	18	20	11	.2	1.5	--	.01	--	1.5	--
APR.											
04...	0	25	25	12	.1	.94	--	.04	--	.98	--
MAY											
02...	0	32	30	13	.3	--	.89	--	.07	--	.96
JUNE											
06...	0	41	28	12	.1	--	1.0	--	.09	--	1.1
JULY											
11...	0	39	35	15	.2	--	1.2	--	.08	--	1.3
AUG.											
08...	--	37	37	17	.3	--	1.3	--	.21	--	1.5
SEP.											
05...	--	35	25	11	.2	--	1.0	--	.08	--	1.1

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
FEB.											
07...	.10	89	69	43	25	141	6.8	--	7	--	6.0
APR.											
04...	.11	--	84	51	26	154	6.6	--	20	16	12
MAY											
02...	.13	117	102	58	26	182	6.8	15.0	--	--	9.9
JUNE											
06...	.11	121	107	63	22	193	7.2	21.0	--	--	5.0
JULY											
11...	.10	129	117	68	29	220	6.9	26.5	--	--	9.5
AUG.											
08...	.67	150	133	77	40	257	--	27.0	--	--	--
SEP.											
05...	.09	136	--	--	--	187	--	24.5	--	--	--

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, at center of river on a line 200 ft (61 m) upstream of bridge from the north side of pier 12 north through channel station +14.3 to pierhead line on New Jersey side of river.

DRAINAGE AREA.--7,993 mi^2 (20,700 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.
Water temperatures: November 1960 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 370 micromhos Aug. 17; minimum, 100 micromhos Dec. 16.
Dissolved oxygen: Maximum, 13.7 mg/l Dec. 22; minimum, 0.0 mg/l on several days during May to September.
pH: Maximum, 7.7 Jan. 14; minimum, 5.9 Aug. 27 to Sept. 1.
Water temperatures: Maximum, 27.0°C Aug. 29 to Sept. 1; minimum, 14.0°C Apr. 30.

Period of record:
Specific conductance (1963-74): Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.
Dissolved oxygen (1960-74): Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on many days each year.
pH (1968-74): Maximum, 7.7 Jan. 14, 1974; minimum, 5.6 Feb. 27, 1970.
Water temperatures: Maximum, 31.0°C July 13-15, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Water-quality recorder (30°57'10", 75°08'18") located at river end of pier 11 north about 100 ft (30 m) downstream from bridge. Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
DEC. 06...	1135	2.7	760	--	90	--	19	6.6	14	3.0	31
JAN. 03...	--	3.0	740	--	70	--	9.5	3.0	4.1	1.3	17
FEB. 07...	--	4.0	1300	--	90	--	11	3.7	6.2	1.4	22
MAR. 07...	1415	3.8	1500	--	140	--	12	4.2	9.5	1.8	21
APR. 04...	1110	4.6	--	--	--	--	12	4.6	7.9	1.9	29
MAY 02...	1105	3.3	--	1000	--	130	15	5.0	9.0	2.0	37
JUNE 06...	1155	3.6	--	70	--	50	15	5.7	9.4	2.1	49
JULY 11...	1120	.2	--	30	--	10	18	6.2	13	2.6	49
AUG. 08...	1105	1.9	--	0	--	0	21	8.0	15	3.5	47
SEP. 05...	1050	3.8	--	--	--	--	--	--	--	--	55

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
DEC. 06...	0	25	40	19	.3	3.1	--	.01	--	3.1	--
JAN. 03...	0	14	17	7.0	.1	.99	--	.01	--	1.0	--
FEB. 07...	0	18	21	10	.3	1.5	--	.01	--	1.5	--
MAR. 07...	0	17	32	15	.2	.88	--	.03	--	.91	--
APR. 04...	0	24	26	12	.3	1.0	--	.09	--	1.1	--
MAY 02...	0	30	32	13	.3	--	.89	--	.07	--	.96
JUNE 06...	0	40	28	12	.0	--	1.0	--	.08	--	1.1
JULY 11...	0	40	38	17	.3	--	1.2	--	.09	--	1.3
AUG. 08...	--	39	39	19	.3	--	1.3	--	.23	--	1.5
SEP. 05...	--	45	27	13	.1	--	1.2	--	.11	--	1.3

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
DEC. 06...	.19	157	120	75	49	237	7.9	--	9	--	1.0
JAN. 03...	.04	71	53	36	22	109	7.1	--	7	--	2.0
FEB. 07...	.11	89	69	43	25	138	7.1	--	9	--	3.0
MAR. 07...	.09	104	89	47	30	175	6.4	--	11	--	13
APR. 04...	.10	--	84	49	25	152	6.7	--	40	90	9.0
MAY 02...	.11	137	104	58	28	190	6.7	14.5	--	--	12
JUNE 06...	.11	122	105	61	21	191	7.0	21.0	--	--	7.8
JULY 11...	.12	125	126	70	30	232	6.7	26.0	--	--	16
AUG. 08...	.75	173	140	85	47	242	--	27.0	--	--	--
SEP. 05...	.03	156	--	--	--	225	--	24.5	--	--	--

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAR. 07...	1415	110	11	<1.5	1.2	3.6	1.6	2.8	1.4	.04	.01

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	326	275	304	289	272	281	232	208	217	---	---	---
2	322	292	311	279	267	274	232	202	215	---	---	---
3	317	291	306	280	263	273	232	200	218	---	---	---
4	315	286	303	278	262	270	238	209	224	199	180	---
5	310	287	301	281	262	273	243	227	235	196	180	187
6	311	284	298	285	197	233	243	202	221	193	182	187
7	312	285	299	233	183	211	222	178	196	214	188	197
8	312	285	297	248	202	223	202	168	183	209	199	204
9	314	288	300	244	192	219	196	161	183	235	200	213
10	313	274	293	225	183	201	171	157	164	291	220	234
11	298	275	287	245	195	214	160	122	140	255	237	246
12	296	269	283	221	198	210	139	108	122	257	247	251
13	295	269	282	242	208	224	142	124	133	256	245	250
14	292	270	286	257	211	230	138	103	127	264	237	253
15	297	262	278	253	214	237	123	103	115	262	239	255
16	307	282	294	248	202	226	131	100	121	258	255	257
17	309	279	293	232	193	211	147	120	132	259	239	255
18	323	280	298	240	195	221	150	134	140	259	249	256
19	313	279	297	236	213	224	142	124	134	263	250	257
20	314	290	304	252	221	236	151	127	139	260	244	253
21	320	288	306	253	232	242	165	127	150	265	244	255
22	322	298	310	248	212	232	130	113	119	264	248	256
23	324	298	313	250	214	236	---	---	---	257	243	251
24	329	304	317	261	219	241	---	---	---	254	244	249
25	331	308	321	257	222	247	---	---	---	258	250	254
26	344	314	329	267	222	247	---	---	---	258	239	252
27	339	311	326	261	235	250	---	---	---	249	231	243
28	342	306	325	264	235	252	---	---	---	244	224	---
29	343	297	326	239	200	224	---	---	---	---	---	---
30	318	279	304	243	210	225	---	---	---	---	---	---
31	296	274	287	---	---	---	---	---	---	---	---	---
MONTH	344	262	303	289	183	236	---	---	---	291	180	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	185	168	178	177	159	170	198	187	191
2	---	---	---	189	170	178	184	173	178	200	193	197
3	---	---	---	189	176	183	185	176	181	202	195	199
4	---	---	---	186	180	---	191	181	186	210	193	199
5	---	---	---	191	184	---	187	177	183	210	199	204
6	---	---	---	196	186	190	178	160	---	223	205	214
7	---	---	---	199	191	194	---	---	---	235	221	226
8	---	---	---	197	185	193	---	---	---	236	221	229
9	---	---	---	196	186	192	150	141	---	226	217	223
10	---	---	---	193	178	188	158	144	149	219	207	216
11	---	---	---	184	171	178	161	151	156	223	220	---
12	---	---	---	180	168	175	161	153	156	---	---	---
13	---	---	---	175	165	169	157	154	---	---	---	---
14	---	---	---	172	166	169	---	---	---	206	201	---
15	223	215	---	182	169	176	---	---	---	212	181	196
16	224	214	220	183	174	179	---	---	---	191	161	179
17	227	220	224	180	168	174	158	148	---	181	129	161
18	233	219	226	178	167	173	157	146	152	166	109	145
19	233	221	229	184	176	179	156	143	150	149	122	---
20	239	226	235	191	180	185	152	140	145	143	137	---
21	237	224	232	193	174	187	151	141	145	153	143	148
22	235	220	230	180	165	174	154	146	149	171	151	156
23	233	219	226	173	161	168	159	151	---	171	159	163
24	222	214	219	173	159	165	166	157	---	171	161	167
25	246	218	227	172	165	168	168	159	163	176	167	172
26	240	223	230	175	165	170	175	165	169	185	173	180
27	223	189	209	170	163	167	175	167	171	204	179	193
28	205	171	187	173	161	166	183	171	176	211	199	205
29	---	---	---	180	165	170	183	175	179	222	211	218
30	---	---	---	181	168	174	193	183	187	235	204	220
31	---	---	---	179	162	170	---	---	---	214	191	201
MONTH	---	---	---	199	159	177	193	140	---	236	109	192

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	229	193	204	243	229	237	313	307	---	264	245	255
2	---	---	---	230	211	219	305	284	---	284	264	275
3	---	---	---	212	211	---	322	276	293	263	246	254
4	225	215	---	---	---	---	301	275	290	279	235	253
5	229	217	224	---	---	---	297	263	278	279	251	271
6	235	225	230	---	---	---	289	264	277	269	223	252
7	247	231	237	---	---	---	284	259	272	251	202	233
8	243	235	240	---	---	---	282	236	269	232	198	217
9	245	237	---	---	---	---	283	236	272	224	196	210
10	---	---	---	---	---	---	287	255	273	220	191	207
11	---	---	---	---	---	---	260	216	242	217	190	204
12	251	235	---	283	263	---	324	270	---	235	197	215
13	251	237	245	283	273	---	350	292	316	226	213	---
14	253	237	245	---	---	---	359	311	337	232	216	224
15	257	241	249	---	---	---	363	312	339	233	220	227
16	289	247	272	274	259	---	365	321	344	239	223	231
17	277	237	---	276	256	268	370	326	349	239	217	231
18	263	235	248	276	256	268	353	311	334	236	221	230
19	269	236	246	281	260	273	342	305	325	242	227	236
20	267	243	253	283	265	276	298	267	---	255	233	241
21	291	245	262	287	269	---	302	269	289	258	242	250
22	318	293	309	---	---	---	302	275	289	254	241	249
23	310	251	283	287	273	---	293	264	280	260	245	---
24	269	259	266	288	265	279	291	268	276	240	224	---
25	273	257	266	284	266	276	289	253	267	245	227	237
26	263	251	259	286	269	278	289	253	266	244	231	238
27	277	257	271	285	268	278	298	274	286	247	234	241
28	273	257	267	277	253	264	303	283	294	255	236	246
29	255	245	251	279	249	261	309	202	295	252	233	243
30	253	244	248	305	279	291	328	293	307	246	228	239
31	---	---	---	311	289	301	312	248	276	---	---	---
MONTH	318	193	---	---	---	---	370	202	294	284	190	237

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.8	0.6	1.0	5.1	2.5	3.9	8.3	5.2	6.9	---	---	---
2	2.3	0.5	0.9	5.4	3.6	4.6	8.1	5.3	6.8	---	---	---
3	1.7	0.5	0.8	5.1	3.4	4.3	7.8	4.0	6.5	---	---	---
4	1.9	0.4	0.8	4.8	3.1	3.8	7.5	5.1	6.5	12.1	11.2	---
5	1.3	0.4	0.6	4.4	2.7	3.4	7.4	4.4	5.9	11.8	11.0	11.4
6	1.1	0.4	0.5	6.0	2.6	4.2	7.8	4.8	6.1	11.8	10.9	11.4
7	1.0	0.4	0.5	6.4	4.1	4.9	8.6	5.8	7.4	12.1	11.1	11.5
8	0.8	0.4	0.5	5.5	3.5	4.3	9.3	6.7	8.0	12.2	11.2	11.6
9	0.4	0.3	0.4	5.1	3.1	3.9	9.6	7.5	8.5	12.5	11.2	11.7
10	0.8	0.3	0.5	5.6	3.3	4.2	9.6	8.6	9.2	12.5	11.2	11.8
11	0.7	0.5	0.6	5.4	3.4	4.1	10.6	9.0	9.8	12.3	10.9	11.5
12	0.8	0.4	0.5	5.1	3.2	3.9	10.7	8.0	10.2	12.2	11.1	11.6
13	0.7	0.4	0.5	5.0	2.8	3.6	10.8	9.8	10.3	12.6	11.4	12.0
14	1.1	0.4	0.7	5.1	2.6	3.4	10.9	9.9	10.3	12.8	11.5	12.0
15	1.4	0.6	0.9	4.7	2.2	3.0	11.2	10.4	10.7	12.8	11.7	12.2
16	1.3	0.7	0.9	4.3	2.1	3.1	11.2	10.3	10.8	12.7	11.5	12.1
17	1.5	0.7	1.0	6.3	3.2	4.3	11.5	10.6	11.2	12.3	11.2	11.8
18	1.5	0.6	0.9	5.7	2.9	4.0	11.9	11.1	11.4	12.5	11.1	11.8
19	1.7	0.6	0.8	5.3	2.9	4.0	12.1	11.1	11.6	12.7	11.0	11.8
20	1.0	0.5	0.6	5.0	2.6	3.7	12.2	10.9	11.5	12.3	10.8	11.6
21	1.4	0.6	0.8	4.7	2.4	3.4	13.3	10.7	11.8	12.1	10.6	11.2
22	1.3	0.5	0.7	4.4	2.1	3.2	13.7	13.1	13.5	11.6	10.7	11.1
23	1.0	0.5	0.6	4.7	1.9	3.1	---	---	---	11.7	10.7	11.2
24	1.5	0.5	0.6	4.4	1.7	2.9	---	---	---	11.8	10.8	11.3
25	0.7	0.5	0.6	4.4	1.7	2.8	---	---	---	11.6	10.6	11.1
26	0.7	0.5	0.6	4.7	1.9	3.2	---	---	---	11.2	10.4	10.9
27	0.8	0.5	0.6	4.3	1.7	2.9	---	---	---	11.2	10.1	10.6
28	1.2	0.5	0.8	5.4	1.8	3.1	---	---	---	11.0	10.0	---
29	2.7	0.8	1.4	6.6	3.2	4.6	---	---	---	---	---	---
30	3.1	1.3	1.9	7.8	4.4	5.9	---	---	---	---	---	---
31	4.5	1.8	3.1	---	---	---	---	---	---	---	---	---
MONTH	4.5	0.3	0.8	7.8	1.7	3.8	---	---	---	12.8	10.0	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.9	10.3	11.1	11.1	10.3	10.7	5.1	3.2	3.9
2	---	---	---	11.8	10.0	10.9	11.1	10.0	10.4	4.9	2.7	3.6
3	---	---	---	11.2	9.7	10.5	10.7	9.7	10.2	4.3	2.1	3.2
4	---	---	---	11.0	9.9	---	10.5	9.6	9.9	4.7	2.1	3.5
5	---	---	---	11.2	10.2	---	10.6	9.4	9.8	4.5	2.4	3.2
6	---	---	---	10.8	9.7	10.3	9.9	9.1	---	3.7	1.8	2.8
7	---	---	---	10.4	9.2	9.7	---	---	---	3.3	1.8	2.6
8	---	---	---	10.4	8.9	9.6	---	---	---	3.7	1.4	2.4
9	---	---	---	10.2	8.7	9.4	10.4	9.4	---	3.6	1.4	2.3
10	---	---	---	10.1	8.6	9.4	10.5	8.4	9.3	3.7	1.3	2.4
11	---	---	---	10.3	9.2	9.7	10.2	7.9	9.0	3.9	1.8	---
12	---	---	---	10.0	8.9	9.5	9.8	7.6	8.4	---	---	---
13	---	---	---	10.6	9.4	10.1	9.2	9.1	---	---	---	---
14	---	---	---	11.0	10.0	10.5	---	---	---	6.2	5.4	---
15	11.9	10.6	---	10.5	9.4	10.0	---	---	---	5.7	4.6	5.2
16	12.1	10.5	11.3	10.4	8.9	9.6	---	---	---	4.9	3.8	4.4
17	11.9	10.7	11.4	11.1	8.8	10.2	---	---	---	4.8	3.7	---
18	11.9	10.5	11.2	11.6	10.5	11.1	---	---	---	---	---	---
19	11.9	10.3	11.0	10.9	9.9	10.4	---	---	---	---	---	---
20	11.4	10.1	10.7	10.6	9.6	10.1	---	---	---	6.1	4.7	---
21	11.3	9.9	10.6	10.3	8.8	9.7	---	---	---	5.7	4.0	4.7
22	11.2	9.7	10.3	10.8	10.0	10.4	---	---	---	4.6	2.7	3.4
23	10.9	9.8	10.5	10.6	9.9	10.3	---	---	---	3.9	1.8	2.7
24	11.5	10.4	11.0	10.6	9.7	10.1	6.9	6.1	---	3.2	1.4	2.2
25	11.5	10.7	11.0	10.8	9.8	10.2	---	---	---	2.4	0.6	1.6
26	11.1	10.3	10.8	11.1	9.6	10.3	---	---	---	2.9	0.5	1.3
27	11.5	10.1	10.7	11.0	9.9	10.5	---	---	---	3.4	0.5	1.5
28	11.6	10.1	10.9	10.9	9.9	10.4	---	---	---	3.2	1.2	2.2
29	---	---	---	11.0	9.5	10.1	5.5	5.0	---	3.3	0.6	1.6
30	---	---	---	10.9	9.0	9.8	5.1	3.6	4.4	2.4	0.1	1.0
31	---	---	---	11.0	9.5	10.3	---	---	---	0.8	0.0	0.3
MONTH	---	---	---	11.9	8.6	10.1	---	---	---	6.2	0.0	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.8	0.0	0.3	3.0	1.5	2.3	---	---	---	---	---	---
2	---	---	---	2.8	1.4	2.1	---	---	---	---	---	---
3	---	---	---	2.0	0.7	1.5	---	---	---	---	---	---
4	2.6	0.8	---	1.4	0.6	1.1	---	---	---	0.7	0.5	---
5	3.4	0.9	2.2	1.2	1.0	---	---	---	---	1.2	0.8	1.1
6	2.5	0.5	1.4	---	---	---	---	---	---	1.1	0.9	1.0
7	2.6	0.9	1.3	---	---	---	---	---	---	1.1	0.9	1.0
8	2.5	0.4	1.5	---	---	---	---	---	---	1.2	1.0	1.1
9	2.5	0.4	---	---	---	---	---	---	---	1.3	1.1	1.2
10	---	---	---	---	---	---	---	---	---	1.3	0.8	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	2.4	0.5	---	1.4	1.0	---	---	---	---	3.3	1.5	---
13	1.8	0.1	0.7	1.5	1.2	---	---	---	---	5.7	2.7	4.1
14	1.3	0.0	0.4	---	---	---	---	---	---	5.3	2.2	3.5
15	1.0	0.0	---	---	---	---	---	---	---	5.1	2.3	3.3
16	---	---	---	1.6	0.5	---	---	---	---	5.1	1.7	3.1
17	1.0	0.3	---	1.5	0.1	0.7	---	---	---	3.9	0.4	1.5
18	1.6	0.2	0.5	0.8	0.1	0.5	---	---	---	0.9	0.1	0.5
19	2.7	0.3	---	0.7	0.1	0.4	---	---	---	0.6	0.0	0.2
20	---	---	---	0.5	0.0	---	---	---	---	0.5	0.0	0.1
21	---	---	---	---	---	---	---	---	---	0.6	0.1	0.3
22	---	---	---	---	---	---	---	---	---	0.8	0.2	0.4
23	---	---	---	---	---	---	---	---	---	1.0	0.5	---
24	0.8	0.3	---	---	---	---	---	---	---	2.5	1.0	---
25	0.5	0.3	0.4	---	---	---	---	---	---	2.4	0.6	1.1
26	0.7	0.2	0.4	---	---	---	---	---	---	2.0	0.4	1.1
27	1.1	0.3	0.6	---	---	---	---	---	---	1.7	0.3	0.9
28	3.1	0.7	1.8	---	---	---	---	---	---	1.6	0.3	0.7
29	3.3	1.4	2.4	---	---	---	---	---	---	2.7	0.3	1.0
30	3.1	2.0	2.5	---	---	---	---	---	---	4.3	1.2	2.8
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	5.7	0.0	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

PH (UNITS) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.2	6.3	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---
2	7.0	6.4	6.7	6.9	6.9	6.9	6.8	6.7	6.8	---	---	---
3	7.2	6.6	6.9	6.9	6.9	6.9	6.8	6.7	6.8	---	---	---
4	6.9	6.5	6.7	6.9	6.8	6.9	6.8	6.7	6.8	7.3	7.0	---
5	6.6	6.2	6.4	6.9	6.8	6.9	7.0	6.7	6.8	7.2	6.9	7.1
6	6.5	6.2	6.3	6.9	6.8	6.9	6.8	6.7	6.8	7.1	6.8	6.9
7	6.8	6.5	6.7	6.9	6.9	6.9	6.8	6.8	6.8	7.3	6.8	7.1
8	6.9	6.6	6.8	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.2	7.3
9	6.7	6.4	6.5	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.1	7.3
10	6.5	6.4	---	6.9	6.9	6.9	6.8	6.8	6.8	7.4	7.2	7.3
11	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.2	7.3
12	---	---	---	6.9	6.8	6.9	6.9	6.8	6.8	7.6	7.4	7.5
13	---	---	---	6.9	6.8	6.9	6.9	6.8	6.8	7.6	7.4	7.6
14	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.7	7.4	7.5
15	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.6	7.5	7.5
16	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	7.5	7.4	7.5
17	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.5	7.3	7.4
18	6.8	6.7	---	6.9	6.8	6.9	6.9	6.8	6.9	7.6	7.4	7.5
19	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.9	7.5	7.4	7.4
20	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.8	7.5	7.0	7.2
21	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.8	7.1	6.9	7.0
22	6.8	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	7.1	7.0	7.1
23	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	7.2	7.0	7.1
24	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	7.2	7.1	7.1
25	6.8	6.8	6.8	7.1	6.9	7.0	---	---	---	7.2	7.1	7.1
26	6.8	6.7	6.8	6.9	6.6	6.8	---	---	---	7.1	7.1	7.1
27	6.8	6.8	6.8	6.8	6.7	6.8	---	---	---	7.1	7.0	7.1
28	6.8	6.8	6.8	7.0	6.6	6.8	---	---	---	7.1	7.0	---
29	7.0	6.8	6.9	6.8	6.7	6.8	---	---	---	---	---	---
30	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---	---	---	---
31	6.9	6.8	6.9	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.1	6.6	6.9	---	---	---	7.7	6.8	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0	---	---	---
2	---	---	---	7.0	6.8	7.0	7.1	6.9	7.0	7.2	7.0	---
3	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0	7.1	6.7	6.8
4	---	---	---	7.1	6.9	---	7.1	7.1	---	6.9	6.7	6.8
5	---	---	---	7.0	6.7	---	---	---	---	6.9	6.6	6.8
6	---	---	---	6.8	6.6	6.7	---	---	---	6.9	6.8	6.9
7	---	---	---	7.1	6.6	6.8	---	---	---	7.0	6.8	6.9
8	---	---	---	7.0	6.7	6.8	---	---	---	7.1	6.9	---
9	---	---	---	6.8	6.6	6.7	6.9	6.6	---	---	---	---
10	---	---	---	6.9	6.6	6.8	7.0	6.8	6.9	---	---	---
11	---	---	---	6.9	6.7	6.8	6.9	6.8	6.9	---	---	---
12	---	---	---	6.8	6.7	6.8	7.0	6.8	---	---	---	---
13	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
14	---	---	---	7.0	6.9	6.9	---	---	---	6.9	6.8	---
15	7.4	7.0	---	6.9	6.8	6.9	---	---	---	7.1	6.9	7.0
16	7.2	6.8	7.0	6.9	6.8	6.8	---	---	---	7.1	6.7	6.9
17	7.4	6.8	7.1	6.9	6.8	6.9	6.8	6.7	---	7.0	6.7	---
18	7.4	7.2	7.3	7.0	6.8	6.9	6.8	6.7	6.7	---	---	---
19	7.3	7.1	7.2	6.8	6.7	6.8	6.7	6.6	6.6	---	---	---
20	7.3	7.1	7.2	6.8	6.7	6.7	6.7	6.6	6.6	6.4	6.2	---
21	7.3	7.2	7.2	6.8	6.6	6.7	6.7	6.5	6.6	6.7	6.3	6.5
22	7.2	6.8	7.0	6.8	6.7	6.8	6.7	6.5	6.6	---	---	---
23	7.1	6.9	7.0	6.8	6.6	6.7	6.9	6.6	---	---	---	---
24	7.2	7.0	7.1	6.7	6.6	6.6	---	---	---	6.5	6.2	6.3
25	7.2	7.1	7.1	6.8	6.6	6.7	---	---	---	6.5	6.2	6.4
26	7.2	7.1	7.2	6.9	6.6	6.8	---	---	---	6.5	6.3	6.4
27	7.1	7.1	7.1	7.0	6.8	6.9	---	---	---	6.6	6.3	6.4
28	7.1	7.0	7.0	7.0	6.8	6.9	---	---	---	---	---	---
29	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
30	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
31	---	---	---	7.1	6.8	7.0	---	---	---	---	---	---
MONTH	---	---	---	7.1	6.6	6.8	---	---	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.4	6.5	6.3	6.2	6.3	---	---	---	6.1	5.9	6.0
2	---	---	---	6.3	6.2	6.3	---	---	---	6.1	6.0	6.1
3	---	---	---	6.3	6.2	6.2	6.5	6.3	---	6.3	6.1	6.2
4	6.6	6.0	---	6.2	6.2	6.2	6.4	6.3	6.4	6.8	6.1	6.3
5	6.7	6.0	6.3	6.2	6.1	---	6.4	6.2	6.4	6.7	6.3	6.6
6	6.5	6.0	6.3	---	---	---	7.2	6.4	6.6	6.7	6.4	6.5
7	6.6	6.0	---	---	---	---	6.9	6.6	6.8	6.4	6.2	6.3
8	---	---	---	---	---	---	7.3	6.3	6.9	6.4	6.3	6.3
9	---	---	---	---	---	---	6.7	6.2	6.5	6.4	6.1	6.3
10	---	---	---	---	---	---	6.5	6.2	6.3	6.8	6.2	6.4
11	---	---	---	---	---	---	6.6	6.2	6.4	6.6	6.4	---
12	---	---	---	6.8	6.7	---	6.5	6.2	---	---	---	---
13	---	---	---	6.8	6.8	---	6.6	6.2	6.4	---	---	---
14	---	---	---	---	---	---	6.5	6.4	6.5	---	---	---
15	---	---	---	---	---	---	6.5	6.4	6.5	---	---	---
16	---	---	---	6.8	6.7	---	6.5	6.3	6.4	---	---	---
17	6.3	[illegible]3	---	6.8	6.7	6.7	6.6	6.3	6.5	---	---	---
18	6.3	6.1	6.2	6.8	6.7	6.8	6.7	6.3	6.4	---	---	---
19	6.5	6.1	6.3	6.8	6.7	6.7	6.5	6.3	6.4	---	---	---
20	7.1	6.2	6.5	6.8	6.7	6.8	6.3	6.1	---	---	---	---
21	6.9	6.3	6.5	6.8	6.7	---	6.3	6.2	6.3	---	---	---
22	6.8	6.3	6.5	---	---	---	6.5	6.2	6.4	---	---	---
23	6.6	6.3	6.5	---	---	---	6.6	6.3	6.5	---	---	---
24	6.3	6.2	---	---	---	---	6.5	6.2	6.3	---	---	---
25	6.4	6.0	6.3	6.6	6.4	6.4	6.4	6.2	6.3	---	---	---
26	6.4	6.2	6.3	6.7	6.4	6.5	6.4	6.1	6.3	---	---	---
27	6.4	6.3	6.4	6.7	6.5	6.6	6.0	5.9	6.0	---	---	---
28	6.6	6.3	6.5	6.7	6.3	6.5	6.3	5.9	6.0	---	---	---
29	6.5	6.3	6.4	6.5	6.3	6.3	6.1	5.9	6.0	---	---	---
30	6.4	6.2	6.3	6.5	6.3	6.4	6.0	5.9	6.0	---	---	---
31	---	---	---	6.4	6.3	---	6.1	5.9	6.0	---	---	---
MONTH	---	---	---	---	---	---	7.3	5.9	6.4	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.0	---	---	---	---	---	---	---	---	---
2	21.5	21.0	21.0	---	---	---	---	---	---	---	---	---
3	21.5	21.0	21.0	---	---	---	---	---	---	---	---	---
4	21.5	21.0	21.0	---	---	---	---	---	---	---	---	---
5	21.5	21.0	21.5	---	---	---	---	---	---	---	---	---
6	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
7	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
8	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
9	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
10	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
11	21.0	20.5	20.5	---	---	---	---	---	---	---	---	---
12	20.5	20.5	20.5	---	---	---	---	---	---	---	---	---
13	20.5	20.0	20.5	---	---	---	---	---	---	---	---	---
14	20.5	19.5	20.0	---	---	---	---	---	---	---	---	---
15	20.0	19.5	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	18.5	18.0	18.0
19	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
20	---	---	---	---	---	---	---	---	---	19.0	18.5	---
21	---	---	---	---	---	---	---	---	---	20.0	18.5	19.0
22	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
23	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
24	---	---	---	---	---	---	---	---	---	21.0	20.5	21.0
25	---	---	---	---	---	---	---	---	---	21.0	20.5	20.5
26	---	---	---	---	---	---	---	---	---	20.5	20.0	20.0
27	---	---	---	---	---	---	---	---	---	20.5	20.0	20.0
28	---	---	---	---	---	---	---	---	---	20.5	20.0	20.5
29	---	---	---	---	---	---	14.5	14.5	---	20.5	20.0	20.5
30	---	---	---	---	---	---	14.5	14.0	---	20.5	20.5	20.5
31	---	---	---	---	---	---	---	---	---	20.5	20.0	20.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.5	23.5	23.0	23.5	26.5	26.0	---	27.0	26.5	26.5
2	---	---	---	24.0	23.0	23.5	26.5	26.0	---	26.5	26.0	26.5
3	---	---	---	24.5	24.0	24.5	26.0	26.0	26.0	26.5	26.0	26.0
4	20.5	20.0	---	25.0	24.5	24.5	26.0	25.5	26.0	26.0	25.5	26.0
5	21.0	20.5	21.0	25.0	25.0	---	26.0	25.5	25.5	25.5	24.5	25.5
6	21.5	21.0	21.0	---	---	---	26.0	25.5	25.5	25.0	23.0	24.0
7	21.5	21.0	21.0	---	---	---	25.5	25.0	25.5	23.5	21.0	22.5
8	21.5	21.0	21.0	---	---	---	25.5	24.5	25.0	22.0	20.0	21.0
9	21.5	21.0	---	---	---	---	25.5	24.5	25.0	21.5	20.0	20.5
10	---	---	---	---	---	---	25.0	24.5	25.0	21.0	19.5	20.0
11	---	---	---	---	---	---	25.0	24.5	24.5	20.5	19.0	19.5
12	22.0	22.0	---	26.0	26.0	---	25.0	24.5	---	20.5	19.0	20.0
13	23.0	22.0	22.0	26.0	26.0	---	25.0	24.5	25.0	21.0	20.5	---
14	23.0	22.0	22.5	---	---	---	25.5	24.5	25.0	21.0	20.5	20.5
15	23.5	23.0	23.0	---	---	---	25.0	25.0	25.0	20.5	20.5	20.5
16	23.5	23.5	23.5	26.5	26.0	---	25.5	25.0	25.0	21.0	20.5	20.5
17	24.0	23.5	---	26.5	26.0	26.5	25.5	25.5	25.5	21.5	20.5	21.0
18	24.0	23.5	23.5	26.5	26.0	26.0	25.5	25.5	25.5	21.5	21.0	21.5
19	24.5	24.0	24.0	26.0	25.5	26.0	25.5	25.5	25.5	22.0	21.5	21.5
20	24.5	24.0	24.5	26.0	25.5	26.0	26.0	25.5	---	22.0	21.5	22.0
21	25.0	24.5	24.5	26.0	25.5	---	26.5	25.5	25.5	23.0	22.0	22.0
22	25.0	24.5	25.0	---	---	---	26.0	25.5	25.5	22.0	21.5	21.5
23	24.5	24.0	24.5	25.5	25.5	---	26.0	25.5	25.5	21.5	21.0	---
24	24.5	24.0	---	25.5	25.0	25.0	26.0	25.5	25.5	21.0	21.0	---
25	24.0	23.5	24.0	25.0	25.0	25.0	26.0	25.5	25.5	21.0	20.5	21.0
26	24.0	23.5	23.5	25.0	24.5	25.0	26.5	25.5	26.0	21.0	20.5	21.0
27	23.5	23.0	23.0	25.0	24.5	25.0	26.5	26.0	26.0	21.0	20.5	20.5
28	23.0	22.0	22.5	25.0	25.0	25.0	26.5	26.0	26.5	21.5	20.5	21.0
29	23.0	22.0	23.0	25.5	25.0	25.5	27.0	26.5	26.5	21.0	20.5	21.0
30	23.0	22.0	22.5	26.0	25.5	25.5	27.0	26.5	26.5	20.5	20.0	20.0
31	---	---	---	26.0	25.5	26.0	27.0	26.5	26.5	---	---	---
MONTH	25.0	20.0	---	---	---	---	27.0	24.5	25.5	27.0	19.0	22.0

01467300 DELAWARE RIVER AT WHARTON STREET, PHILADELPHIA, PA.

LOCATION.--Lat 39°44'54", long 75°08'11", Philadelphia County, at center of river on a line between piers 53 and 55 South through channel station +22.6 to coal pier on New Jersey side of river.

DRAINAGE AREA.--8,000 mi^2 (20,700 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1968, October 1968 to September 1970 (partial-record station), February to September 1974.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB. 07...	--	4.0	680	--	80	--	11	3.6	7.0	1.5	21
MAR. 07...	1400	4.2	2200	--	170	--	13	4.3	10	1.9	23
APR. 04...	1045	4.6	--	--	--	--	12	4.2	8.0	1.9	30
MAY 02...	1040	3.6	--	1200	--	130	15	5.0	9.0	2.0	33
JUNE 06...	1135	3.6	--	70	--	2400	15	5.3	11	2.0	48
JULY 11...	1100	.2	--	90	--	60	19	6.6	15	2.8	46
AUG. 08...	1045	1.9	--	0	--	30	21	8.6	17	3.1	45
SEP. 05...	1030	3.8	--	--	--	--	--	--	--	--	48

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 07...	0	17	21	11	.3	1.6	--	.01	--	1.6	--
MAR. 07...	0	19	32	16	.2	.93	--	.03	--	.96	--
APR. 04...	0	25	26	12	.1	.92	--	.04	--	.96	--
MAY 02...	0	27	34	13	.3	--	.90	--	.06	--	.96
JUNE 06...	0	39	27	12	.0	--	1.0	--	.09	--	1.1
JULY 11...	0	38	41	19	.3	--	1.2	--	.10	--	1.3
AUG. 08...	--	37	43	22	.3	--	1.1	--	.26	--	1.4
SEP. 05...	--	39	28	13	.2	--	1.3	--	.13	--	1.4

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
FEB. 07...	.11	87	70	42	25	141	7.1	--	9	--	2.7
MAR. 07...	.10	110	93	50	31	187	6.4	--	14	--	15
APR. 04...	.12	--	84	47	23	153	6.7	--	35	25	9.6
MAY 02...	.09	124	104	58	31	193	6.6	15.0	--	--	13
JUNE 06...	.11	113	107	59	20	193	6.9	21.0	--	--	9.7
JULY 11...	.21	129	133	75	37	247	6.6	26.0	--	--	18
AUG. 08...	1.4	190	150	88	51	250	--	27.0	--	--	--
SEP. 05...	.10	153	--	--	--	208	--	24.5	--	--	--

01467400 DELAWARE RIVER AT LEAGUE ISLAND, PHILADELPHIA, PA.

LOCATION.--Lat 39°52'56", long 75°10'43", Philadelphia County, at center of river on a line from north side of naval yard pier 4 through channel station +51.3 to a covered wharf at Red Bank, N.J. (below ferry slip).

DRAINAGE AREA.--8,070 mi^2 (20,900 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1968, October 1968 to September 1970 (partial-record station), February to September 1974.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB. 07...	--	4.0	910	--	100	--	11	3.7	8.0	1.5	20
MAR. 07...	1330	4.3	2300	--	190	--	14	5.0	12	2.0	26
APR. 04...	1015	4.3	--	--	--	--	13	4.8	7.9	1.9	27
MAY 02...	1010	4.1	--	1300	--	190	16	5.6	10	2.1	34
JUNE 06...	--	3.4	--	70	--	70	15	5.7	11	2.1	45
JULY 11...	1030	.5	--	60	--	130	21	7.4	17	3.1	35
AUG. 08...	1000	1.7	--	0	--	40	25	10	22	3.9	38
SEP. 05...	1000	2.5	--	--	--	--	--	--	--	--	44

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 07...	0	16	22	13	.2	1.7	--	.01	--	1.7	--
MAR. 07...	0	21	34	18	.3	.96	--	.04	--	1.0	--
APR. 04...	0	22	29	12	.3	.92	--	.06	--	.98	--
MAY 02...	0	28	38	14	.3	--	1.0	--	.09	--	1.1
JUNE 06...	0	37	31	13	.1	--	.87	--	.10	--	.97
JULY 11...	0	29	58	21	.3	--	1.2	--	.18	--	1.4
AUG. 08...	--	31	65	27	.3	--	1.0	--	.27	--	1.3
SEP. 05...	--	36	34	16	.2	--	1.4	--	.12	--	1.5

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
FEB. 07...	.13	87	74	43	26	148	6.8	--	6	--	5.1
MAR. 07...	.11	120	103	56	34	196	6.5	--	13	--	13
APR. 04...	.10	--	87	52	30	157	6.6	--	25	22	11
MAY 02...	.07	145	113	63	35	201	6.6	15.5	--	--	14
JUNE 06...	.11	123	108	61	24	196	6.8	21.5	--	--	11
JULY 11...	.08	173	152	83	54	283	6.4	25.5	--	--	22
AUG. 08...	.30	206	180	100	72	312	--	26.0	--	--	--
SEP. 05...	.09	144	--	--	--	227	--	24.5	--	--	--

01470500 SCHUYLKILL RIVER AT BERNE, PA.

LOCATION.--Lat 40°31'20", long 75°59'55", Berks County, at highway bridge 50 ft (15 m) downstream from gaging station at Berne, 0.5 mi (0.8 km) upstream from Mill Creek, and 6.5 mi (10.5 km) downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi^2 (919 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1947 to February 1953, October 1956 to September 1974.
Water temperatures: February 1948 to September 1953, December 1957 to September 1974.
Sediment records: October 1947 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 711 micromhos Aug. 27; minimum daily, 135 micromhos Dec. 21.
Water temperatures: Maximum daily, 28.5°C July 14; minimum daily, 1.0°C Dec. 17, 18, Jan. 14, Feb. 10.

Period of record:
Specific conductance (1963-74): Maximum daily, 1,410 micromhos Oct. 25, 26, 28, 1964; minimum daily, 128 micromhos Feb. 18, 1969.
Water temperatures: Maximum daily, 33.0°C July 3, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 373. Unpublished records of specific conductance and pH of sediment samples available in the district office at Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
MAR. 07...	1115	643	148	12	6.2	--	390	5.9	9.0
MAY 10...	0845	568	150	16	1.2	--	410	6.4	12.0
JUNE 06...	1030	343	179	14	2.5	--	520	6.3	17.0
JULY 09...	1345	322	212	16	2.5	--	620	6.8	28.0
AUG. 14...	1000	235	168	15	2.5	.0	554	6.3	--
SEP. 10...	1000	540	173	11	2.5	.0	390	6.3	19.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974 (ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	536	293	394	292	247	308	276	423	402	419	443	509
2	532	331	391	298	249	323	256	404	409	338	421	535
3	451	344	463	269	299	322	222	408	444	392	425	441
4	452	361	478	314	340	364	232	410	453	377	422	342
5	459	481	399	335	293	365	190	408	455	479	523	316
6	462	491	227	384	322	379	187	457	487	511	503	343
7	483	404	195	408	308	355	228	477	502	545	447	341
8	590	382	214	339	327	382	225	428	490	531	460	372
9	576	402	216	363	359	326	234	400	542	556	490	434
10	556	409	168	364	367	297	228	412	610	590	496	425
11	560	402	190	355	337	264	246	404	594	587	---	440
12	522	545	185	390	427	244	281	296	556	624	---	445
13	519	545	217	397	237	248	310	210	547	610	---	429
14	512	469	230	455	410	262	321	182	556	648	552	381
15	577	441	235	408	421	267	243	205	551	669	547	388
16	622	467	249	393	397	269	203	233	594	671	523	465
17	606	454	286	396	399	285	215	257	618	634	526	469
18	572	445	283	398	495	315	240	266	598	534	531	431
19	542	507	265	388	510	261	248	320	558	547	589	454
20	565	593	283	382	468	290	267	340	537	588	651	436
21	577	530	135	471	462	277	331	329	550	586	653	449
22	606	480	166	290	367	231	345	341	561	607	607	445
23	694	483	204	242	273	209	301	335	559	706	562	523
24	618	503	211	392	267	277	322	347	579	661	565	577
25	605	488	223	229	288	250	337	344	578	577	619	535
26	598	552	240	226	257	253	356	354	429	564	693	498
27	596	570	196	257	280	267	353	444	439	559	711	479
28	620	503	203	253	295	313	446	467	428	544	708	482
29	549	441	215	233	---	321	450	461	449	630	602	415
30	374	423	259	229	---	345	452	403	348	625	565	383
31	256	---	273	222	---	377	---	411	---	534	570	---

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	10.0	6.5	4.5	5.5	6.0	7.0	16.0	18.0	22.0	27.0	25.0
2	17.0	10.5	5.0	5.0	4.0	5.0	9.0	15.0	16.0	23.0	24.0	22.0
3	17.0	10.0	5.0	4.0	3.0	6.0	12.0	15.5	20.0	25.0	23.5	19.5
4	19.0	9.5	5.0	5.0	4.0	9.0	14.0	17.0	20.0	22.0	25.0	18.0
5	19.0	8.0	9.0	2.5	3.0	10.0	12.0	15.5	24.0	25.0	26.0	18.0
6	18.0	7.0	10.0	4.0	3.0	8.5	8.0	12.0	24.0	26.0	22.0	18.0
7	16.0	6.0	7.0	5.0	2.5	11.5	10.0	12.0	22.5	26.0	25.0	18.0
8	16.0	7.0	6.0	3.5	3.0	8.0	8.5	12.0	21.5	27.0	24.0	19.5
9	17.0	6.5	7.0	3.0	5.0	6.0	8.0	13.0	22.0	26.0	23.0	19.0
10	17.5	5.0	8.0	3.0	1.0	8.0	8.5	16.0	23.0	25.0	24.0	19.0
11	17.0	5.0	6.5	3.0	3.0	7.0	10.0	17.0	22.0	26.0	---	21.0
12	17.5	5.0	5.0	4.0	2.0	6.5	12.0	14.0	19.0	21.5	---	22.0
13	17.0	6.5	5.0	2.0	3.0	5.0	12.0	12.0	25.0	23.0	---	24.0
14	17.0	9.0	6.0	1.0	4.0	5.5	12.0	15.0	25.0	28.5	24.0	22.0
15	16.5	13.0	5.0	2.0	4.0	7.0	11.0	19.0	20.0	24.0	24.0	20.0
16	14.0	9.5	6.0	4.0	5.0	6.5	12.0	20.0	21.0	26.5	27.0	19.0
17	12.5	8.0	1.0	4.0	5.0	5.0	13.0	20.0	23.0	25.0	25.0	19.0
18	11.0	5.0	1.0	3.0	4.0	5.0	13.5	19.5	19.0	25.0	26.0	18.0
19	12.0	6.0	3.0	3.0	4.0	6.0	12.0	19.0	22.0	27.0	22.0	22.0
20	14.0	7.5	2.0	2.5	5.0	7.0	12.0	18.5	26.0	22.0	25.0	20.0
21	15.0	7.0	4.0	4.0	7.0	7.0	14.0	19.0	---	21.5	27.0	22.0
22	15.0	11.0	5.0	5.0	8.0	6.5	15.5	20.0	24.0	25.0	26.0	20.0
23	13.5	9.0	5.0	6.5	6.0	8.0	14.0	20.0	20.0	21.0	26.5	16.0
24	14.0	8.5	4.0	4.0	4.5	7.0	11.0	20.5	19.0	19.5	26.0	12.0
25	15.0	10.0	6.0	6.0	4.5	6.0	13.5	16.0	18.0	23.0	23.0	16.0
26	13.5	8.5	6.0	5.0	3.5	6.5	15.0	18.0	19.0	22.5	26.0	16.0
27	14.0	9.5	8.0	9.0	3.0	6.5	16.0	17.0	22.0	25.0	26.0	17.5
28	11.0	12.0	7.0	7.5	6.0	8.0	19.0	16.0	18.0	26.0	26.0	17.0
29	11.0	7.5	5.5	7.0	---	5.0	20.5	16.5	19.0	26.0	26.0	14.0
30	10.5	8.0	5.0	7.0	---	5.0	21.0	19.0	22.0	24.0	24.0	14.0
31	11.0	---	5.0	8.0	---	5.0	---	---	---	26.0	25.0	---

01470800 (Revised) TULPEHOCKEN CREEK AT BERNVILLE, PA.

LOCATION.--Lat 40°25'32", long 76°06'51", Berks County, at single-span concrete bridge on Legislative Route 06047, 0.5 mi (0.8 km) south of Bernville, 600 ft (183 m) above confluence with Northkill Creek.

DRAINAGE AREA.--84.8 mi² (220 km²).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.
Sediment records: October 1972, January to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 394.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 30...	0800	126	3.4	.24	1.7	1.9	.64	.40
NOV. 13...	1030	50	6.5	.10	.67	.77	.07	.06
DEC. 05...	1530	155	5.0	.15	.85	1.0	.17	.10
JAN. 23...	1115	335	1.7	.15	.52	.67	.20	.11
FEB. 19...	1230	125	8.1	.04	.41	.45	.09	.04
MAR. 19...	1030	145	6.3	.05	.35	.40	.06	.04
APR. 17...	1015	195	5.2	.07	.81	.88	.13	.06
MAY 08...	1030	110	6.6	.10	.50	.60	.41	.38
JUNE 18...	1145	95	5.9	.18	.62	.80	.23	.14
JULY 23...	1030	54	5.9	.07	.73	.80	.14	.11
AUG. 20...	0930	50	5.3	.09	.66	.75	.20	.15
SEP. 04...	1140	96	1.9	.14	1.3	1.4	.28	.16

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 30...	285	6.9	10.5	9.4	E250000	E200000	E300000	--
NOV. 13...	540	7.6	5.5	13.6	E260	270	280	8.0
DEC. 05...	460	7.6	11.0	10.4	18000	3200	E60000	2.0
JAN. 23...	370	6.9	5.5	12.0	3500	970	3700	.0
FEB. 19...	490	7.2	5.0	13.0	E60	E50	E100	1.0
MAR. 19...	495	8.1	7.0	12.6	--	57	200	1.0
APR. 17...	430	7.4	10.5	10.6	1400	170	250	.0
MAY 08...	480	7.6	10.5	12.6	780	280	140	1.0
JUNE 18...	460	7.1	18.5	8.8	5300	3700	880	2.6
JULY 23...	500	7.3	19.5	8.3	1100	--	500	--
AUG. 20...	510	7.6	20.0	8.0	3400	1100	800	2.2
SEP. 04...	460	7.7	18.5	8.4	E56000	E21000	E70000	10

DELAWARE RIVER BASIN

01470800 TULPEHOCKEN CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
JUNE 18...	1145	5600	910	5.0	18	2320	2330	386	400	22	3.9

DATE	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
JUNE 18...	1	0	4	7	12	25	23	8	0	39

01470825 NORTHKILL CREEK AT BERNVILLE, PA.

LOCATION.--Lat 40°25'50", long 76°06'51", Berks County, at a retaining wall 670 ft (204 m) upstream from highway bridge on county road 0.2 mi (0.3 km) from Bernville, and 0.4 mi (0.6 km) from mouth.

DRAINAGE AREA.--42.0 mi^2 (109 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.
Sediment records: October 1972, January to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment samples for this station on page 394.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 30...	0830	39	1.5	.09	.86	.95	.16	.03
NOV. 13...	1045	35	1.4	.09	.52	.61	.01	.00
DEC. 05...	1545	225	1.2	.23	1.1	1.3	.23	.11
JAN. 23...	1100	200	1.1	.05	.38	.43	.07	.03
FEB. 19...	1300	25	2.7	.03	.43	.46	.02	.01
MAR. 19...	1100	80	6.3	.09	.33	.42	.03	.01
APR. 17...	1025	80	2.0	.06	.67	.68	.06	.01
MAY 08...	1035	20	1.0	.06	.54	.60	.02	.01
JUNE 18...	1230	15	.90	.19	.56	.75	.10	.04
JULY 23...	1110	6.0	.60	.09	.42	.51	.03	.02
AUG. 20...	1045	10	1.0	.09	.48	.57	.07	.03
SEP. 04...	1230	40	1.4	.08	.95	1.0	.13	.05

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 30...	180	7.1	9.0	9.2	E200000	E45000	E170000	--
NOV. 13...	180	7.8	6.0	14.0	320	150	E1500	5.0
DEC. 05...	155	7.6	11.5	10.2	37000	9000	E100000	4.0
JAN. 23...	125	7.1	5.5	12.8	1000	E180	560	.0
FEB. 19...	130	7.2	2.5	14.8	500	E36	300	.0
MAR. 19...	135	7.9	5.0	14.2	880	97	240	.9
APR. 17...	115	6.5	9.0	12.6	1100	90	60	2.0
MAY 08...	145	7.9	9.5	13.6	1100	170	290	1.4
JUNE 18...	165	6.3	19.0	10.0	12000	3000	1300	--
JULY 23...	205	7.3	19.0	9.1	22000	--	2300	--
AUG. 20...	205	6.4	21.0	9.2	8300	4200	2300	3.3
SEP. 04...	187	7.2	18.0	9.6	28000	E12000	33000	8.6

01470825 NORTHKILL CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	LOSS ON IGNI-TION IN BOTTOM DE-POSITS (MG/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)
JUNE 18...	1230	7500	670	6.0	13	2210	2220	219	47800	23	.1

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
JUNE 18...	3	0	0	6	10	30	2.6	9	0	49

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, 1.0 mi (1.6 km) downstream from gaging station at Rebers Bridge, 1.0 mi (1.6 km) east of Blue Marsh, 3 mi (4.8 km) north of Sinking Spring, and 5.5 mi (8.8 km) northwest of Reading.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.
Water temperatures: October 1968 to September 1974.
Sediment records: May 1973 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 404 micromhos June 14; minimum daily, 163 micromhos Dec. 21.
Water temperatures: Maximum, 28.0°C July 4, 9; minimum, 1.5°C Jan. 10, 13, 15, 19.

Period of record:
Specific conductance (1973-74): Maximum daily, 420 micromhos Sept. 10, 1973; minimum daily, 147 micromhos June 29, 1973.
Water temperatures: Maximum, 34.0°C Oct. 2, 1968; minimum, freezing point on several days during December 1970, January, March 1971.

REMARKS.--Sediment data for this station on page 377. Temperature recorder located at gaging station 1.0 mi (1.6 km) upstream from sampling site.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 30...	0930	459	2.9	.28	2.2	2.5	1.3	.45
NOV. 13...	1100	110	5.5	.08	.50	.58	.08	.06
DEC. 05...	1500	160	4.1	.08	1.0	1.2	.17	.09
JAN. 23...	1215	780	1.3	.10	.44	.54	.14	.08
FEB. 19...	1345	215	6.6	.03	.60	.63	.06	.04
MAR. 19...	1200	289	9.3	.09	.39	.48	.05	.03
APR. 17...	1115	392	5.0	.07	.84	.91	.08	.05
MAY 08...	1100	200	4.1	.11	.59	.70	.04	.02
JUNE 18...	1315	132	5.0	.15	.56	.71	.17	.12
JULY 23...	1230	71	4.2	.10	1.1	1.2	.32	.14
AUG. 20...	1215	74	3.6	.06	.53	.59	.18	.14
SEP. 04...	1320	223	2.7	.10	1.1	1.2	.30	.15

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 30...	270	6.9	11.5	9.2	E350000	E183000	E350000	--
NOV. 13...	430	7.8	7.0	14.0	470	240	160	5.0
DEC. 05...	390	7.5	11.0	11.0	3600	460	1600	4.0
JAN. 23...	220	6.7	6.0	12.6	2000	500	1700	1.0
FEB. 19...	390	7.6	4.0	14.4	920	390	150	1.0
MAR. 19...	310	8.6	6.5	14.6	1500	230	180	.8
APR. 17...	320	7.3	12.0	12.0	200	60	68	.0
MAY 08...	380	8.1	11.0	15.4	170	77	42	1.1
JUNE 18...	405	7.2	21.5	12.2	980	830	248	7.7
JULY 23...	440	7.2	21.0	8.8	3100	--	2900	--
AUG. 20...	418	6.6	24.0	11.1	1000	670	150	3.4
SEP. 04...	320	7.7	19.5	9.6	E53000	E21000	44000	7.3

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	LOSS ON IGNI-TION IN BOTTOM DE-POSITS (MG/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)
JUNE 18...	1315	4600	690	8.0	29	2910	2920	674	1000	21

DATE	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
JUNE 18...	4.3	1	3	4	7	18	17	6	0	34

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	---	---	---	321	---	258	330	350	311	---	---
2	378	---	---	307	---	319	---	341	359	358	---	---
3	350	---	---	---	---	321	266	---	370	370	338	278
4	362	---	---	---	---	---	213	313	377	---	283	283
5	371	---	335	310	392	325	220	---	---	377	306	315
6	---	---	296	305	366	---	250	336	377	376	350	---
7	---	---	302	320	348	332	270	334	379	---	360	279
8	347	---	317	339	---	---	---	316	388	392	366	296
9	370	---	225	---	---	266	273	347	---	399	363	314
10	356	---	220	331	382	---	285	321	386	---	261	335
11	376	---	---	---	---	285	294	324	387	---	341	340
12	364	---	262	325	374	286	297	---	390	---	357	361
13	373	---	---	352	---	293	282	207	398	---	366	329
14	355	---	256	---	359	299	---	237	404	---	360	278
15	375	---	277	344	365	---	300	264	---	367	358	292
16	370	---	---	343	392	---	308	260	---	373	361	304
17	387	---	---	329	369	295	311	284	380	362	308	---
18	375	---	---	342	---	305	314	---	388	376	318	---
19	382	---	311	334	360	302	315	294	---	368	---	320
20	---	---	302	334	324	303	---	---	389	367	351	332
21	384	---	163	256	344	208	331	317	---	384	370	---
22	392	---	231	---	314	243	---	311	397	---	364	---
23	---	---	---	256	---	262	323	320	---	373	370	339
24	379	---	---	285	---	272	---	315	---	369	358	365
25	390	---	---	297	298	290	336	---	369	372	356	---
26	---	---	---	---	---	297	331	340	372	362	381	343
27	---	---	203	301	325	301	332	---	387	365	360	361
28	380	---	248	305	320	304	---	---	381	380	376	359
29	344	---	257	301	---	---	323	361	352	---	---	278
30	248	---	---	---	---	---	333	365	---	319	322	---
31	---	---	---	311	---	226	---	---	---	322	365	---

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	13.5	15.0	12.0	10.0	11.0	6.5	4.0	5.5	5.5	5.0	5.0
2	16.5	15.0	15.5	12.0	8.5	10.0	4.0	3.0	3.5	5.0	3.0	3.5
3	18.5	15.5	17.0	12.0	9.5	---	---	---	---	4.0	3.5	3.5
4	19.5	15.5	17.5	10.5	8.5	9.0	6.0	3.0	4.5	4.5	3.5	3.5
5	19.5	16.5	18.0	9.0	7.5	8.0	11.0	6.5	9.0	---	---	---
6	17.0	13.5	15.5	7.5	5.5	6.5	11.0	7.5	9.5	4.0	3.0	3.5
7	15.0	12.5	14.0	7.5	5.0	6.0	7.0	5.0	6.0	5.0	3.5	4.0
8	17.0	13.5	15.0	7.0	3.5	5.5	4.5	3.5	4.0	---	---	---
9	16.0	14.0	15.0	8.0	5.0	6.5	6.0	4.0	4.5	---	---	---
10	17.0	15.0	16.0	5.5	3.5	4.5	6.5	5.5	6.0	3.0	1.5	2.0
11	16.0	14.5	15.5	4.5	2.0	3.0	6.5	4.5	5.5	4.5	3.0	3.5
12	15.5	13.0	14.0	6.0	2.5	4.0	4.5	3.5	4.0	4.5	3.0	3.5
13	16.5	13.0	14.5	9.5	5.0	7.0	4.0	2.5	3.0	3.0	1.5	2.0
14	17.0	14.5	15.5	12.0	8.5	10.0	5.5	4.0	5.0	---	---	---
15	16.0	12.0	14.0	13.0	9.5	11.5	5.0	4.0	4.5	3.0	1.5	2.0
16	15.5	13.0	14.0	12.5	8.5	11.5	---	---	---	5.0	3.0	4.0
17	13.0	10.0	11.5	8.5	6.0	7.5	---	---	---	5.0	5.0	5.0
18	10.5	9.0	10.0	6.5	4.0	5.5	---	---	---	5.0	3.5	4.5
19	11.5	8.5	9.5	8.5	6.0	7.0	---	---	---	3.5	1.5	3.0
20	13.5	9.0	11.0	8.0	6.0	7.0	---	---	---	3.5	3.0	3.5
21	13.5	10.0	11.5	8.5	5.5	7.0	---	---	---	3.5	3.0	3.5
22	13.0	8.5	10.5	11.0	8.5	9.5	---	---	---	6.0	3.5	4.5
23	12.5	8.5	10.5	9.5	6.5	8.0	5.0	3.5	4.0	7.0	4.0	5.5
24	13.5	10.0	11.5	9.0	8.0	8.5	5.0	3.5	4.0	7.0	6.0	6.5
25	13.5	9.0	11.0	11.0	8.5	10.0	3.5	3.0	3.0	6.5	5.5	6.0
26	13.5	9.5	11.5	10.5	8.5	9.0	5.0	4.0	4.5	6.0	4.5	5.0
27	13.5	10.5	11.5	10.0	8.5	9.5	8.0	5.0	6.5	8.5	5.0	7.0
28	11.5	9.0	10.5	12.0	10.0	11.0	8.0	7.0	7.5	8.5	6.5	7.5
29	11.0	10.5	10.5	10.5	7.0	9.0	7.0	5.5	6.0	8.0	7.0	7.5
30	10.5	10.0	10.5	8.0	5.5	6.5	6.5	5.0	6.0	8.0	6.5	7.0
31	10.5	8.5	9.5	---	---	---	5.0	4.0	4.5	7.5	5.0	6.5
MONTH	19.5	8.5	13.0	13.0	2.0	8.0	---	---	---	8.5	1.5	4.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	5.5	6.5	---	---	---	---	---	---	22.0	18.0	20.0
2	6.0	5.5	6.0	---	---	---	---	---	---	18.0	14.5	16.0
3	6.0	5.5	5.5	---	---	---	---	---	---	15.0	13.0	13.5
4	5.5	5.0	5.0	---	---	---	---	---	---	17.5	12.0	14.5
5	5.0	4.5	5.0	---	---	---	---	---	---	15.0	11.5	13.5
6	4.5	3.5	4.0	---	---	---	---	---	---	14.0	12.5	13.0
7	5.0	3.0	4.0	---	---	---	---	---	---	14.0	10.5	12.0
8	3.5	3.0	3.0	---	---	---	---	---	---	15.0	9.5	12.5
9	3.0	2.0	3.0	---	---	---	---	---	---	14.0	13.0	13.0
10	3.0	2.5	2.5	---	---	---	---	---	---	17.5	13.0	15.0
11	4.0	2.5	3.0	---	---	---	---	---	---	18.5	13.5	16.0
12	4.0	3.5	4.0	---	---	---	---	---	---	17.5	14.5	16.0
13	7.0	4.0	5.0	---	---	---	---	---	---	14.5	13.0	14.0
14	7.0	5.0	6.0	---	---	---	---	---	---	18.5	12.0	15.0
15	5.5	3.5	5.0	---	---	---	---	---	---	22.0	16.0	18.5
16	3.5	2.5	3.5	---	---	---	14.0	9.5	12.0	23.0	17.5	20.0
17	5.5	3.0	4.0	---	---	---	14.5	10.0	12.5	24.0	18.5	21.5
18	5.0	3.0	4.0	---	---	---	15.5	10.5	13.0	23.5	19.5	21.5
19	---	---	---	---	---	---	14.0	11.0	12.5	21.5	17.5	19.5
20	---	---	---	---	---	---	14.5	8.5	11.5	20.5	16.0	18.0
21	---	---	---	---	---	---	16.0	10.5	13.5	20.5	15.5	18.0
22	---	---	---	---	---	---	17.0	14.0	15.5	22.5	17.0	19.5
23	---	---	---	---	---	---	17.5	14.0	15.5	21.0	19.0	20.0
24	---	---	---	---	---	---	14.0	10.5	11.5	21.5	17.0	19.5
25	---	---	---	---	---	---	14.5	9.0	11.5	19.0	16.5	17.5
26	---	---	---	---	---	---	17.0	11.0	14.0	18.5	14.5	16.5
27	---	---	---	---	---	---	18.0	11.5	15.0	16.5	14.0	15.5
28	---	---	---	---	---	---	19.0	13.0	16.0	18.5	13.5	16.0
29	---	---	---	---	---	---	22.5	16.0	19.0	17.0	15.5	16.0
30	---	---	---	---	---	---	22.5	18.0	20.5	21.0	15.5	18.0
31	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
MONTH	---	---	---	---	---	---	---	---	---	24.0	9.5	16.5

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	18.0	24.5	19.0	22.0	24.5	18.5	22.0	25.0	21.0	23.0
2	17.5	15.5	16.0	25.5	19.0	22.5	25.5	20.0	23.0	23.0	20.5	21.5
3	21.0	14.0	17.0	27.5	21.0	24.0	24.5	21.0	22.5	21.5	19.5	20.5
4	22.0	16.5	19.5	28.0	23.0	26.0	23.5	21.0	22.5	19.5	17.5	18.5
5	23.5	17.5	20.5	26.5	23.5	24.5	24.5	20.5	22.5	20.0	14.5	17.0
6	23.5	17.5	20.5	26.5	22.0	24.0	24.5	19.0	21.5	17.5	16.0	16.5
7	21.5	18.0	20.0	27.0	20.5	24.0	24.0	19.5	21.5	17.5	15.0	16.5
8	21.0	18.0	19.0	27.5	21.5	24.5	22.0	18.5	20.5	20.5	16.5	18.0
9	25.0	18.0	21.5	28.0	22.5	25.5	23.5	19.5	21.0	20.0	17.0	18.5
10	27.5	20.0	24.0	27.5	24.0	25.5	24.5	19.0	21.5	21.5	17.5	19.5
11	25.5	22.0	24.0	25.0	21.0	23.0	24.0	17.5	21.0	22.0	18.0	20.0
12	22.5	19.0	21.0	24.5	18.0	21.5	24.0	17.0	20.5	25.5	19.5	22.0
13	22.5	16.5	19.5	25.0	18.0	21.5	23.5	18.5	21.0	27.5	21.0	24.0
14	21.0	16.5	19.5	27.0	19.5	23.5	26.0	20.0	23.0	24.0	17.0	21.0
15	22.5	17.0	20.0	27.0	22.5	25.0	26.0	19.0	22.5	19.5	14.5	16.5
16	21.0	18.5	20.0	26.0	21.5	24.0	24.5	18.5	22.0	19.5	14.0	16.0
17	23.0	17.5	20.0	25.0	18.5	22.0	24.0	21.5	22.5	20.5	14.5	17.0
18	22.0	16.5	20.0	25.0	20.0	22.5	25.5	19.5	22.5	20.0	15.0	17.0
19	23.0	16.5	20.0	27.0	22.0	24.5	25.5	20.5	23.0	21.0	14.5	17.5
20	25.0	20.0	22.5	24.5	20.0	22.5	26.0	20.0	23.0	24.0	16.0	20.0
21	23.5	21.0	22.0	23.0	17.5	20.5	25.5	20.5	23.0	23.0	16.5	20.5
22	25.0	20.0	23.0	24.5	17.5	21.0	23.5	21.0	22.0	17.0	13.5	15.5
23	23.0	17.5	19.5	21.5	18.0	19.5	26.5	21.5	23.5	15.0	11.5	13.5
24	20.5	16.5	18.0	18.5	17.5	17.5	26.5	21.5	24.0	13.0	8.5	10.5
25	18.0	16.5	16.5	22.0	16.5	19.0	26.0	21.0	23.5	13.5	8.0	10.5
26	20.0	15.5	17.5	21.0	18.0	19.5	23.5	21.0	22.0	15.5	10.5	13.0
27	21.5	16.5	19.0	24.5	19.0	22.0	26.5	21.5	23.5	17.0	11.0	14.0
28	18.5	16.5	17.0	25.5	20.5	23.0	25.5	23.0	24.5	17.5	14.0	15.0
29	19.0	15.5	17.0	25.0	21.0	23.0	27.0	22.5	24.5	19.5	15.5	17.5
30	23.0	16.0	19.5	24.0	21.0	22.5	25.0	23.0	24.0	15.5	13.0	14.0
31	---	---	---	25.0	19.0	22.0	24.5	20.5	22.5	---	---	---
MONTH	27.5	14.0	19.5	28.0	16.5	22.5	27.0	17.0	22.5	27.5	8.0	17.5

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA.

LOCATION.--Lat 39°59'42", long 75°11'40", Philadelphia County, at Belmont Filter Plant, 1.6 mi (2.6 km) upstream from gaging station, located 40 ft (12 m) upstream from Fairmount Dam, 1,000 ft (305 m) upstream from Spring Garden Street Bridge, Philadelphia, and 8.2 mi (13.2 km) upstream from mouth.

DRAINAGE AREA.--1,890 mi^2 (4,900 km^2), at Fairmount Dam.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1974.
Water temperatures: October 1945 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 616 micromhos July 26; minimum, 177 micromhos Dec. 21.
Dissolved oxygen: Maximum, 14.6 mg/l Dec. 19; minimum, 5.8 mg/l June 24.
pH: Maximum, 7.8 Mar. 30, Sept. 11; minimum, 5.7 Dec. 21.
Water temperatures: Maximum, 31.5°C July 10; minimum, 1.0°C Jan. 14, 15.

Period of record:
Specific conductance (1963-74): Maximum, 972 micromhos June 25, 1965; minimum, 128 micromhos Sept. 14, 1971.
Dissolved oxygen (1966-74): Maximum, 15.5 mg/l Feb. 4, 1973; minimum, 0.4 mg/l July 24, 1971.
pH (1968-74): Maximum, 10.1 Aug. 12, 1969; minimum, 5.7 Dec. 21, 1973.
Water temperatures: Maximum, 31.5°C July 10, 1974; minimum, freezing point on many days during winter periods.

REMARKS.--Water-quality recorder located at Belmont raw-water pumping station on west side of river near Columbia Bridge.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 25...	1200	679	337	9	580	7.3	16.0	8	8.8	2.4	3200	230
NOV. 29...	1500	2070	352	12	490	6.6	14.0	--	8.7	3.0	16000	3000
DEC. 27...	1100	21900	160	189	165	7.4	6.5	75	14.6	3.2	220000	72000

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
DEC. 27...	1100	4300	520	30	25	25	.2	1.8

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)
DEC. 27...	.21	.84	1.1	.40	.22	58	33	5.0	.1

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
DEC. 27...	9.0	.00	1	4	0	0	21	26

01474500 SCHULYKILL RIVER AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	432	423	428	431	344	383	435	414	421	275	268	270
2	428	410	422	436	399	420	428	415	424	290	276	283
3	415	381	397	397	362	372	425	410	416	310	286	297
4	385	350	365	382	368	378	452	409	427	335	311	326
5	397	390	393	379	364	372	477	455	469	327	319	322
6	427	397	417	374	354	365	464	351	401	330	317	323
7	439	418	433	380	368	374	378	329	340	334	329	332
8	446	439	443	390	376	385	395	344	367	356	334	343
9	462	447	454	399	390	395	345	294	326	399	358	377
10	476	461	468	413	400	409	289	245	263	479	378	428
11	469	453	461	433	412	421	267	246	257	465	416	433
12	455	448	451	457	434	---	272	259	265	406	340	364
13	452	446	450	472	456	---	268	260	264	344	336	340
14	460	450	454	489	471	480	275	259	267	342	335	338
15	463	458	461	488	468	476	280	267	275	350	343	347
16	477	462	---	469	455	461	322	268	289	360	350	355
17	---	---	---	458	452	455	329	295	311	374	361	369
18	527	521	---	464	451	458	323	300	309	371	361	367
19	524	514	520	474	459	---	308	301	306	365	345	358
20	515	507	512	---	---	---	494	308	352	368	347	360
21	507	497	501	---	---	---	543	177	271	370	341	356
22	502	496	499	---	---	---	229	197	212	358	242	272
23	514	500	506	506	440	---	236	224	230	291	257	274
24	516	509	513	494	469	486	268	233	254	291	266	280
25	537	516	526	483	474	479	276	265	270	271	255	262
26	549	535	543	500	477	491	302	276	290	266	257	262
27	548	534	541	505	497	500	297	208	229	271	259	267
28	535	519	526	506	492	501	251	214	238	272	259	265
29	537	459	500	501	483	491	265	250	258	287	273	282
30	486	452	470	480	437	456	269	264	265	305	282	299
31	447	339	400	---	---	---	275	267	271	301	279	292
MONTH	549	339	466	506	344	---	543	177	308	479	242	324

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	293	280	287	401	370	386	---	---	---	339	327	332
2	335	283	295	388	373	379	291	270	---	326	310	316
3	325	304	312	389	369	380	292	277	283	326	318	320
4	331	306	313	381	358	370	282	276	279	351	329	344
5	328	322	325	368	353	361	275	227	245	367	350	358
6	344	323	327	362	352	358	238	230	235	374	367	371
7	385	342	371	369	357	363	239	230	234	400	373	388
8	397	369	383	388	359	375	244	235	239	393	377	383
9	390	364	375	397	388	393	255	198	234	378	369	374
10	390	356	370	396	364	376	248	197	222	374	357	---
11	388	352	365	369	329	342	263	249	254	---	---	---
12	396	360	371	329	308	323	277	266	274	---	---	---
13	403	368	385	319	304	312	291	262	279	---	---	---
14	382	365	373	320	313	316	265	227	240	285	268	---
15	381	367	374	323	311	317	---	---	---	304	276	299
16	417	380	397	329	309	320	---	---	---	298	275	281
17	417	388	401	324	312	320	286	276	---	277	265	270
18	395	378	385	308	279	295	289	280	285	288	275	284
19	399	372	383	297	286	292	291	277	284	302	286	297
20	398	385	391	317	292	305	293	289	291	309	298	305
21	390	368	378	362	317	330	296	289	293	319	302	310
22	386	366	375	310	241	262	303	295	299	324	316	320
23	406	382	395	276	248	264	301	297	299	341	324	330
24	419	394	405	285	266	276	302	295	299	348	339	343
25	448	399	419	284	271	276	324	300	314	357	342	351
26	428	361	385	276	270	273	339	322	333	356	348	352
27	365	349	354	293	277	284	338	324	332	366	339	351
28	401	368	385	314	294	308	334	318	325	---	---	---
29	---	---	---	321	311	---	337	327	333	369	361	---
30	---	---	---	---	---	---	338	335	336	368	355	360
31	---	---	---	---	---	---	---	---	---	364	353	357
MONTH	448	280	367	401	241	327	339	197	282	400	265	---

01474500 SCHULYKILL RIVER AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	372	356	361	394	386	389	506	485	500	---	---	---
2	383	372	377	418	396	412	529	506	---	---	---	---
3	390	381	385	410	385	395	---	---	---	---	---	---
4	404	385	395	400	384	394	---	---	---	462	399	---
5	422	391	403	398	386	391	---	---	---	391	293	320
6	424	422	---	408	388	399	---	---	---	---	---	---
7	---	---	---	412	407	410	---	---	---	---	---	---
8	---	---	---	405	371	391	---	---	---	---	---	---
9	---	---	---	378	362	365	---	---	---	359	356	---
10	---	---	---	382	362	372	---	---	---	359	332	343
11	---	---	---	402	381	391	---	---	---	372	344	360
12	---	---	---	439	397	417	450	437	---	392	368	378
13	---	---	---	444	427	---	464	417	440	392	384	---
14	431	426	---	456	430	443	469	455	---	412	391	400
15	442	427	435	456	432	445	---	---	---	418	380	405
16	449	427	441	483	448	469	---	---	---	411	375	392
17	440	362	389	494	484	488	---	---	---	380	358	365
18	365	281	318	501	492	497	---	---	---	381	326	353
19	400	335	387	516	502	509	---	---	---	356	327	342
20	402	389	398	549	521	534	460	440	---	399	357	384
21	391	374	380	559	547	552	472	462	---	403	378	---
22	410	310	388	564	549	558	---	---	---	---	---	---
23	---	---	---	564	548	557	---	---	---	---	---	---
24	401	378	---	572	555	562	---	---	---	---	---	---
25	417	406	412	606	594	---	---	---	---	---	---	---
26	410	378	402	616	596	---	455	442	---	---	---	---
27	371	326	339	---	---	---	460	431	---	---	---	---
28	378	352	365	---	---	---	512	490	---	---	---	---
29	399	380	393	---	---	---	532	510	519	279	221	---
30	407	394	403	---	---	---	541	520	---	294	256	270
31	---	---	---	504	482	---	---	---	---	---	---	---
MONTH	---	---	---	616	362	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	6.3	7.3	10.1	9.7	9.9	10.7	10.3	10.5	---	---	---
2	8.6	7.2	7.9	10.1	9.8	10.0	10.9	10.7	10.8	---	---	---
3	8.8	7.7	8.3	9.9	9.6	9.7	11.1	10.9	11.0	---	---	---
4	8.3	7.6	9.0	9.8	9.6	9.7	11.3	10.6	11.0	---	---	---
5	8.0	7.4	7.7	10.3	9.8	10.1	10.8	10.3	10.6	---	---	---
6	8.1	7.6	7.8	10.5	10.1	10.3	10.6	10.3	---	---	---	---
7	8.7	7.9	8.2	10.8	10.4	10.6	---	---	---	---	---	---
8	8.9	8.0	8.4	10.9	10.5	10.7	---	---	---	---	---	---
9	8.5	8.0	8.2	10.8	10.5	10.7	---	---	---	13.6	13.4	---
10	9.1	7.8	8.2	11.2	10.7	10.9	12.6	12.3	---	13.7	13.4	13.5
11	8.5	8.1	8.3	11.3	11.0	11.2	13.5	12.1	12.9	13.6	13.4	13.6
12	9.1	8.1	8.4	11.4	11.0	---	13.2	12.1	12.7	14.1	13.7	14.0
13	8.7	8.0	8.4	11.3	11.1	---	12.3	11.9	12.1	14.2	13.3	13.8
14	8.8	8.1	8.4	11.2	10.6	10.9	---	---	---	13.6	12.9	13.3
15	8.5	7.9	8.2	10.6	10.1	10.4	---	---	---	13.6	13.0	13.3
16	9.2	7.8	---	10.0	9.2	9.6	---	---	---	13.2	11.4	12.4
17	---	---	---	9.5	9.1	9.2	13.6	13.5	---	12.0	11.1	11.4
18	8.9	8.5	---	9.7	9.2	9.5	14.4	13.6	14.1	12.5	11.2	11.5
19	9.2	8.4	8.8	9.5	9.3	---	14.6	14.4	14.5	12.4	11.0	11.5
20	9.4	8.7	9.1	---	---	---	14.5	14.1	14.4	11.1	10.4	10.7
21	9.4	8.7	9.1	---	---	---	14.1	13.0	13.4	10.9	9.8	10.4
22	9.5	8.7	9.1	---	---	---	13.9	13.1	---	10.8	10.1	10.5
23	9.6	8.7	9.2	8.8	8.3	---	---	---	---	10.5	10.1	10.3
24	9.6	8.8	9.3	9.3	8.3	8.7	---	---	---	10.2	9.8	10.0
25	9.5	8.8	9.2	8.8	8.2	8.5	---	---	---	10.3	9.8	10.1
26	9.4	8.7	9.0	9.3	8.1	8.8	---	---	---	12.9	9.9	11.7
27	9.1	8.3	8.7	9.4	8.9	9.2	---	---	---	12.8	11.6	12.4
28	9.4	8.3	8.9	9.2	8.8	9.1	---	---	---	12.4	11.8	12.2
29	9.5	8.6	9.0	9.5	8.6	9.0	---	---	---	12.4	10.8	11.5
30	10.0	9.0	9.5	10.5	9.5	10.1	---	---	---	12.5	10.9	12.2
31	10.5	10.0	10.3	---	---	---	---	---	---	12.4	12.2	12.3
MONTH	10.5	6.3	8.6	11.4	8.1	---	---	---	---	---	---	---

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.6	12.1	12.4	12.9	12.4	12.7	---	---	---	---	---	---
2	12.6	12.5	12.6	12.7	12.2	12.5	12.3	12.0	---	---	---	---
3	13.1	12.6	12.9	12.8	12.3	12.5	12.1	11.4	11.9	---	---	---
4	13.9	13.0	13.4	12.4	12.1	12.3	11.4	10.6	10.9	---	---	---
5	14.2	13.7	14.0	12.1	11.4	11.6	10.6	10.1	10.3	---	---	---
6	14.3	14.1	14.3	11.6	11.3	11.4	11.0	10.3	10.7	---	---	---
7	14.3	13.7	13.9	11.5	11.0	11.2	11.5	11.0	11.4	9.3	9.1	---
8	13.8	13.6	13.7	11.1	10.6	10.9	11.5	11.3	11.4	9.9	8.8	9.4
9	13.8	13.7	13.8	11.4	10.9	11.2	12.0	10.0	11.5	9.6	8.7	9.1
10	14.1	13.7	13.9	12.6	11.4	12.1	12.3	12.0	12.1	8.7	8.2	---
11	13.9	13.7	13.8	13.0	11.8	12.4	12.2	12.1	---	---	---	---
12	13.7	13.4	13.6	12.0	11.6	11.8	---	---	---	---	---	---
13	13.3	12.8	13.1	12.1	11.6	11.8	---	---	---	---	---	---
14	12.8	12.6	12.7	12.3	11.8	12.0	---	---	---	9.6	9.0	---
15	12.7	12.5	12.6	12.3	11.8	12.0	---	---	---	9.4	8.7	9.2
16	12.7	12.5	12.6	11.9	10.9	11.4	13.8	13.1	---	8.8	8.2	8.5
17	12.5	12.2	12.4	11.7	10.8	11.3	10.1	9.4	---	8.2	7.5	8.0
18	12.9	12.3	12.6	12.1	11.3	11.9	9.4	8.9	9.3	8.0	7.1	7.4
19	12.8	12.3	12.6	12.1	11.6	11.8	8.9	8.7	8.8	8.5	6.9	7.7
20	12.2	11.7	12.0	11.7	11.4	11.5	9.2	8.7	8.9	9.0	7.3	8.2
21	12.4	11.8	12.2	11.4	10.9	11.1	9.2	8.5	8.8	9.0	7.6	8.3
22	12.3	11.3	11.8	12.4	11.5	12.2	8.8	8.2	8.5	8.9	7.1	8.1
23	11.9	11.1	11.3	12.4	11.9	12.2	8.2	7.7	7.9	8.3	6.7	7.3
24	12.5	11.9	12.3	12.0	11.3	11.5	8.7	7.6	8.0	8.2	6.5	7.2
25	13.2	12.2	12.7	12.0	11.2	11.6	8.9	8.3	8.6	7.0	6.4	6.7
26	13.8	13.2	13.5	11.9	11.7	11.8	8.8	6.5	8.5	8.3	5.9	7.1
27	13.8	13.4	13.6	11.9	11.5	11.7	8.8	8.3	8.6	7.7	6.0	6.8
28	13.3	13.0	13.2	11.7	11.2	11.4	8.4	7.9	8.1	---	---	---
29	---	---	---	11.2	10.8	---	8.6	7.4	8.0	10.0	7.5	---
30	---	---	---	---	---	---	---	---	---	9.8	7.7	8.7
31	---	---	---	---	---	---	---	---	---	9.3	7.8	8.5
MONTH	14.3	11.1	13.0	13.0	10.6	11.8	13.8	6.5	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	7.4	8.3	7.3	7.1	7.2	---	---	---	---	---	---
2	8.4	7.3	7.8	7.8	7.3	7.6	---	---	---	---	---	---
3	8.9	7.3	8.1	7.6	7.1	7.3	---	---	---	---	---	---
4	9.3	7.3	8.2	7.4	7.1	7.3	---	---	---	7.8	6.6	---
5	11.5	8.2	9.7	7.4	7.1	7.2	---	---	---	7.7	6.2	7.3
6	9.7	8.5	---	7.6	7.1	7.4	---	---	---	---	---	---
7	---	---	---	7.6	7.5	7.6	---	---	---	---	---	---
8	---	---	---	7.5	6.8	7.2	---	---	---	---	---	---
9	---	---	---	6.8	6.7	6.7	---	---	---	---	---	---
10	---	---	---	7.1	6.7	6.9	---	---	---	---	---	---
11	---	---	---	7.5	7.0	7.2	---	---	---	---	---	---
12	---	---	---	8.1	7.4	7.7	8.4	7.7	---	---	---	---
13	---	---	---	8.2	7.9	---	7.7	6.7	---	---	---	---
14	---	---	---	8.5	8.0	8.2	---	---	---	---	---	---
15	---	---	---	8.4	8.0	8.2	---	---	---	---	---	---
16	---	---	---	9.1	8.0	8.5	---	---	---	---	---	---
17	---	---	---	9.2	9.1	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	8.0	7.7	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	10.0	9.5	---
24	6.1	5.8	---	---	---	---	---	---	---	10.5	9.2	10.1
25	6.3	5.9	6.2	---	---	---	---	---	---	10.5	8.4	9.4
26	7.0	6.0	6.6	---	---	---	---	---	---	11.0	8.5	9.5
27	7.0	6.4	6.7	---	---	---	---	---	---	10.9	8.1	9.4
28	7.2	6.6	6.9	---	---	---	---	---	---	9.4	7.5	8.4
29	8.7	6.2	7.3	---	---	---	---	---	---	8.7	7.4	8.2
30	8.7	6.8	7.8	---	---	---	---	---	---	8.3	8.1	8.2
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01474500 SCHULYKILL RIVER AT PHILADELPHIA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.1	7.2	7.4	7.0	7.2	7.4	7.4	7.4	7.1	7.1	7.1
2	7.2	6.8	7.0	7.3	7.2	7.3	7.4	7.4	7.4	7.2	7.1	7.1
3	7.0	6.8	---	7.3	7.2	7.3	7.4	7.0	7.4	7.1	7.1	7.1
4	---	---	---	7.3	7.3	7.3	7.3	7.2	7.3	7.2	7.1	7.2
5	7.1	7.0	---	7.3	7.3	7.3	7.1	5.8	6.3	7.2	7.2	7.2
6	7.1	6.5	6.9	7.4	7.3	7.3	7.3	6.2	7.0	7.2	7.2	7.2
7	7.1	6.5	6.9	7.3	7.2	7.3	7.2	7.1	7.2	7.2	7.2	7.2
8	7.3	6.9	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
9	7.1	6.9	7.1	7.2	7.2	7.2	7.4	7.1	7.2	7.3	7.1	7.2
10	7.0	6.5	6.9	7.3	7.2	7.3	7.2	7.0	7.1	7.3	7.1	7.2
11	7.0	6.9	7.0	7.2	7.2	7.2	7.2	7.1	7.2	7.2	7.0	7.1
12	7.1	6.9	7.0	7.5	7.2	---	7.3	7.2	7.2	7.2	7.1	7.2
13	7.1	6.4	6.8	7.6	7.5	---	7.3	7.2	7.3	7.2	7.2	7.2
14	7.2	6.2	6.7	7.5	7.4	7.5	7.3	7.1	7.3	7.2	7.1	7.2
15	7.1	6.4	6.9	7.4	7.1	7.3	7.3	7.2	7.3	7.1	6.9	---
16	7.1	6.8	---	7.4	7.1	7.3	7.3	7.2	7.3	---	---	---
17	---	---	---	7.4	7.4	7.4	7.5	7.1	7.3	---	---	---
18	7.1	7.1	---	7.4	7.4	7.4	7.5	7.4	7.5	---	---	---
19	7.2	7.1	7.1	7.4	7.4	---	7.5	7.4	7.4	---	---	---
20	7.1	7.1	7.1	---	---	---	7.4	6.3	7.3	---	---	---
21	7.2	7.1	7.1	---	---	---	7.1	5.7	6.5	---	---	---
22	7.1	7.1	7.1	---	---	---	7.1	6.7	7.0	---	---	---
23	7.4	7.0	7.2	7.5	7.0	---	7.1	6.7	6.9	---	---	---
24	7.6	7.4	7.5	7.5	7.3	7.4	6.7	6.6	6.7	---	---	---
25	7.6	7.5	7.5	7.5	7.0	7.3	6.7	6.6	6.6	---	---	---
26	7.5	7.4	7.5	7.4	7.3	7.3	6.8	6.5	6.7	---	---	---
27	7.6	7.4	7.5	7.2	6.8	7.1	6.7	6.3	6.4	---	---	---
28	7.6	7.5	7.6	7.2	6.4	6.8	6.6	6.4	6.5	---	---	---
29	7.5	6.8	7.2	7.5	7.2	7.3	6.8	6.6	6.7	7.4	6.7	---
30	7.7	7.1	7.4	7.5	7.4	7.5	6.9	6.7	6.8	6.9	6.6	6.8
31	7.4	7.1	7.3	---	---	---	7.2	6.9	7.1	7.0	6.6	6.8
MONTH	7.7	6.2	7.1	7.6	6.4	---	7.5	5.7	7.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	7.1	---	---	---	---	---	---	7.1	6.8	7.0
2	7.1	7.1	7.1	---	---	---	6.8	6.8	---	7.6	6.9	7.2
3	7.1	7.0	7.1	---	---	---	6.9	6.7	6.8	7.2	6.8	7.0
4	7.6	7.1	7.1	7.0	6.7	---	6.7	6.4	6.6	7.0	6.7	6.9
5	7.2	7.1	7.2	7.4	7.1	7.2	6.8	6.4	6.6	7.1	6.8	7.0
6	7.2	7.1	7.2	7.4	7.3	7.4	6.9	6.8	6.8	7.0	6.8	6.9
7	7.1	6.9	7.0	7.4	7.0	7.3	6.9	6.8	6.9	7.4	6.8	7.1
8	7.1	7.0	7.1	7.5	7.2	7.4	6.9	6.9	6.9	7.5	7.3	7.4
9	7.1	7.0	7.1	7.5	7.4	7.5	7.2	6.8	6.9	7.4	7.0	7.3
10	7.1	6.9	7.1	7.5	7.4	7.5	6.9	6.8	6.9	7.0	6.8	---
11	7.5	7.0	7.1	7.5	6.9	---	6.9	6.9	6.9	---	---	---
12	7.1	7.0	7.1	7.0	6.9	6.9	6.9	6.8	6.9	---	---	---
13	7.1	6.9	7.0	7.0	6.9	7.0	6.8	6.6	6.7	---	---	---
14	7.0	6.7	6.9	7.1	7.0	7.0	6.6	6.6	---	7.2	7.0	---
15	7.1	7.1	7.1	7.0	7.0	7.0	---	---	---	---	---	---
16	7.1	7.0	7.1	7.0	6.9	7.0	---	---	---	---	---	---
17	7.1	7.0	7.1	7.3	6.9	7.0	6.9	6.8	---	---	---	---
18	7.3	7.1	---	6.9	6.9	6.9	6.9	6.8	6.9	---	---	---
19	---	---	---	6.9	6.9	6.9	6.9	6.8	6.8	---	---	---
20	---	---	---	7.0	6.9	6.9	7.0	6.8	6.9	---	---	---
21	---	---	---	7.7	6.9	7.2	7.0	6.8	6.9	---	---	---
22	---	---	---	7.5	7.0	7.1	6.8	6.7	6.8	---	---	---
23	---	---	---	7.1	7.0	7.1	6.9	6.6	6.7	7.1	7.1	---
24	---	---	---	7.2	7.0	7.1	7.1	6.8	6.9	7.2	7.1	7.1
25	7.5	7.3	---	7.3	7.2	7.2	7.1	7.0	7.1	7.1	7.1	7.1
26	7.5	6.9	7.3	7.3	7.2	7.2	7.1	7.0	7.0	7.3	7.1	7.2
27	---	---	---	7.3	7.2	7.2	7.1	7.0	7.0	---	---	---
28	---	---	---	7.3	7.2	7.2	7.0	7.0	7.0	---	---	---
29	---	---	---	7.4	7.1	7.2	7.1	6.8	7.0	7.0	6.9	---
30	---	---	---	7.8	7.2	7.5	7.1	6.7	6.9	7.0	6.8	6.9
31	---	---	---	7.4	7.4	---	---	---	---	---	---	---
MONTH	---	---	---	7.8	6.7	7.2	7.2	6.4	6.9	---	---	---

01474500 SCHULYKILL RIVER AT PHILADELPHIA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	7.7	7.1	---
5	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	7.8	7.2	---
12	---	---	---	---	---	---	---	---	---	7.5	6.5	7.1
13	---	---	---	---	---	---	---	---	---	---	---	---
14	7.2	7.1	---	---	---	---	---	---	---	---	---	---
15	7.3	6.7	7.0	---	---	---	---	---	---	---	---	---
16	7.1	6.7	6.8	---	---	---	---	---	---	---	---	---
17	6.8	6.6	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	7.2	7.1	---	---	---	---	---	---	---	---	---	---
25	7.2	7.0	7.1	---	---	---	---	---	---	---	---	---
26	7.5	7.1	7.3	---	---	---	---	---	---	---	---	---
27	7.2	6.9	7.1	---	---	---	---	---	---	---	---	---
28	7.3	7.2	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	7.1	6.9	---
30	---	---	---	---	---	---	---	---	---	7.4	7.1	7.4
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	20.5	21.0	14.0	13.0	13.5	11.5	10.0	11.0	8.0	7.0	7.0
2	21.0	20.5	21.0	14.0	12.0	13.0	10.0	9.0	9.5	7.0	6.5	6.5
3	21.0	20.0	20.5	14.0	13.0	13.5	9.5	9.0	9.0	6.5	6.5	6.5
4	21.5	20.0	21.0	13.5	13.0	13.0	9.5	8.5	9.0	6.5	6.0	6.5
5	22.0	21.0	21.5	13.0	11.5	12.0	11.0	9.5	10.0	6.0	5.0	5.5
6	21.5	20.5	21.0	11.5	10.5	11.0	12.0	10.5	11.5	5.5	5.0	5.0
7	21.0	20.5	20.5	10.5	9.5	10.0	11.0	10.0	11.0	5.5	5.0	5.5
8	21.5	20.0	20.5	10.0	9.5	10.0	10.0	9.0	9.5	5.5	5.0	5.0
9	21.0	20.0	20.5	10.0	8.5	9.0	9.0	8.5	8.5	5.0	3.0	4.0
10	21.0	20.0	20.5	9.5	8.0	8.5	9.0	8.5	9.0	3.0	3.0	3.0
11	20.0	19.0	19.5	9.0	8.0	8.5	8.5	7.0	7.5	3.5	3.0	3.0
12	20.5	19.0	19.5	9.0	8.5	---	8.0	6.5	7.0	3.5	2.0	3.0
13	20.0	19.0	19.5	9.5	9.0	---	7.0	6.5	7.0	2.0	1.5	1.5
14	20.0	19.0	19.5	10.5	9.5	10.0	8.5	7.0	8.0	2.0	1.0	1.0
15	19.5	18.5	19.0	11.5	10.0	11.0	7.0	6.5	7.0	3.0	1.0	1.5
16	19.5	18.5	---	12.0	11.5	11.5	7.0	6.5	6.5	3.5	1.5	3.0
17	---	---	---	11.5	11.0	11.0	9.0	4.0	5.5	4.0	3.0	3.5
18	17.0	16.0	---	11.0	10.5	11.0	4.0	3.0	3.5	3.5	3.0	3.5
19	17.0	15.5	16.0	11.5	10.5	---	3.5	3.0	3.0	4.0	3.0	3.5
20	16.5	15.5	16.0	---	---	---	4.5	3.0	3.5	3.5	3.0	3.0
21	16.5	15.0	15.5	---	---	---	5.0	3.5	4.0	4.5	3.0	3.5
22	16.5	15.0	15.5	---	---	---	5.5	4.0	4.5	4.5	3.0	3.5
23	16.5	15.0	16.0	13.0	12.0	---	13.0	6.0	10.5	5.0	4.0	4.5
24	16.5	15.0	16.0	13.0	11.5	12.5	13.5	12.0	13.0	5.5	5.0	5.0
25	16.5	15.0	15.5	13.5	12.0	12.5	11.5	11.0	11.5	6.0	5.0	5.5
26	17.0	15.5	16.0	13.5	13.0	13.5	11.5	10.5	11.0	5.5	5.5	5.5
27	17.0	16.0	16.5	13.5	13.0	13.0	11.5	10.0	11.0	7.0	5.5	6.0
28	16.5	15.5	16.0	14.5	13.5	14.0	12.0	11.5	12.0	7.0	6.5	6.5
29	16.0	15.5	15.5	14.5	13.5	14.0	12.0	10.5	11.0	8.5	7.0	7.5
30	15.5	14.5	15.0	13.5	11.5	12.5	10.5	9.5	10.5	8.5	8.0	8.0
31	14.5	13.5	14.0	---	---	---	9.0	7.0	8.5	8.5	7.0	8.0
MONTH	22.0	13.5	18.0	14.5	8.0	---	13.5	3.0	8.5	8.5	1.0	4.5

01474500 SCHULYKILL RIVER AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	6.5	7.0	8.0	6.5	7.0	8.0	6.0	6.5	19.5	19.0	---
2	6.5	5.5	6.0	8.0	7.0	7.5	8.5	7.0	7.5	---	---	---
3	5.5	4.5	5.0	8.5	7.0	8.0	10.5	8.0	9.0	---	---	---
4	4.5	3.0	4.0	9.5	8.0	8.5	13.0	10.0	11.5	---	---	---
5	3.5	1.5	2.5	10.5	9.0	10.0	13.5	13.0	13.5	---	---	---
6	3.0	1.5	2.0	11.5	10.0	10.5	13.0	11.5	12.0	---	---	---
7	3.5	2.0	3.0	13.0	11.0	11.5	11.0	10.0	10.5	16.0	15.0	---
8	3.0	2.0	2.5	12.0	11.5	11.5	10.5	10.0	10.0	16.5	14.5	15.0
9	3.5	1.5	2.5	11.5	11.0	11.0	10.5	8.5	9.5	16.0	15.0	15.5
10	3.0	1.5	2.0	11.0	9.0	10.0	9.0	8.0	8.5	16.5	15.5	---
11	3.0	1.5	2.0	9.0	8.0	8.5	10.0	8.5	9.0	---	---	---
12	4.0	1.5	3.0	9.5	8.0	8.5	11.5	10.0	10.5	---	---	---
13	5.0	3.5	4.0	9.0	7.0	8.0	13.0	11.5	12.0	---	---	---
14	6.0	4.5	5.0	8.5	6.5	7.0	15.0	13.0	13.5	16.5	15.5	---
15	6.0	4.5	5.0	8.5	6.5	7.5	15.5	14.5	15.0	18.0	15.0	16.5
16	5.0	4.5	4.5	9.5	8.0	8.5	15.0	13.5	---	20.5	18.0	19.0
17	5.5	4.5	5.0	9.5	7.0	8.5	14.0	14.0	---	23.0	19.5	21.0
18	5.0	3.5	4.5	8.0	6.0	6.5	15.0	13.5	14.5	24.0	21.5	23.0
19	5.0	4.0	4.5	9.0	6.5	7.0	15.0	14.0	14.5	24.0	23.0	23.5
20	6.5	5.0	5.5	10.0	8.0	8.5	15.0	13.5	14.0	23.5	21.0	22.5
21	7.0	5.5	6.0	10.0	9.0	9.5	15.5	13.5	14.0	23.0	20.5	21.5
22	8.5	5.5	7.0	9.5	7.0	8.5	16.0	14.5	15.0	23.5	21.0	22.0
23	8.5	6.5	7.5	9.5	7.0	8.0	17.0	16.0	16.5	23.5	23.0	23.5
24	7.0	6.0	6.5	10.5	9.0	9.5	16.5	15.0	16.0	24.0	23.0	23.5
25	6.0	5.0	5.5	10.0	9.0	9.5	16.0	14.5	15.0	23.5	22.0	23.0
26	6.0	4.5	5.0	10.0	8.5	9.0	16.5	14.5	15.0	22.0	20.5	21.5
27	5.5	4.0	5.0	10.0	8.5	9.0	16.5	14.0	15.0	20.5	18.5	19.5
28	6.5	5.0	5.5	10.5	9.0	9.5	17.0	15.0	16.0	18.0	17.0	---
29	---	---	---	11.5	9.5	10.0	18.5	16.0	17.5	20.0	16.5	---
30	---	---	---	11.0	10.0	10.5	20.5	18.0	19.0	21.0	19.5	20.0
31	---	---	---	11.0	6.5	8.5	---	---	---	21.0	20.0	20.5
MONTH	8.5	1.5	4.5	13.0	6.0	9.0	20.5	6.0	13.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	25.5	22.0	23.5	28.5	27.0	27.5	---	---	---
2	21.0	20.5	20.5	27.0	23.5	25.0	29.0	27.0	28.0	---	---	---
3	21.5	20.0	20.5	29.0	26.0	27.0	27.0	26.0	26.5	---	---	---
4	23.0	20.0	21.0	30.5	28.5	29.5	28.5	25.5	26.5	25.0	23.5	---
5	26.0	21.5	23.5	29.5	29.0	29.0	29.5	25.0	27.5	23.0	21.0	21.5
6	25.5	25.0	---	30.0	28.5	29.0	27.0	26.0	26.5	21.0	20.5	21.0
7	---	---	---	30.5	29.5	30.0	26.0	24.0	24.5	21.0	20.0	20.5
8	---	---	---	31.0	29.5	30.0	24.5	23.5	24.0	22.0	20.0	20.5
9	---	---	---	31.0	29.5	30.5	25.0	24.0	24.5	21.5	20.5	20.5
10	---	---	---	31.5	30.0	31.0	25.0	22.0	23.5	21.5	20.0	20.5
11	---	---	---	30.5	29.5	30.0	25.0	23.0	24.0	23.0	21.5	22.0
12	---	---	---	29.0	27.0	28.0	25.0	23.5	24.0	24.5	23.0	23.5
13	---	---	---	28.0	26.5	---	25.0	23.5	24.5	25.5	23.0	24.5
14	26.0	25.0	---	28.0	26.0	27.5	26.5	23.0	25.0	25.5	22.0	24.5
15	25.5	24.0	25.0	28.5	27.0	28.0	26.0	24.0	25.0	24.5	23.0	23.5
16	25.0	23.5	24.5	29.5	28.0	28.5	26.5	24.0	25.5	23.5	21.5	22.5
17	24.5	24.0	24.5	28.5	26.0	27.5	25.5	24.0	---	22.0	21.0	21.5
18	24.5	23.0	23.5	28.5	26.5	27.0	---	---	---	22.0	21.0	21.5
19	25.5	24.0	25.0	28.5	26.5	27.5	---	---	---	23.0	21.0	22.0
20	26.5	25.0	25.5	28.0	26.5	27.0	27.0	26.0	---	23.5	21.5	22.0
21	28.0	26.0	26.5	30.5	25.0	26.5	28.0	24.5	26.0	23.5	21.0	22.0
22	28.5	26.0	27.0	27.0	25.0	26.0	26.0	25.5	26.0	22.0	20.5	21.0
23	---	---	---	26.0	25.5	25.5	26.0	25.5	---	21.0	19.5	20.5
24	24.5	23.0	24.0	25.5	24.0	24.5	---	---	---	19.5	18.0	18.5
25	23.0	23.0	22.5	25.0	24.5	---	---	---	---	20.0	17.0	19.0
26	22.0	22.0	21.5	25.0	23.5	---	---	---	---	20.0	18.5	19.0
27	22.0	21.0	21.0	---	---	---	---	---	---	20.5	18.5	19.5
28	21.0	21.0	20.0	---	---	---	---	---	---	21.0	19.5	20.0
29	22.0	20.0	21.0	---	---	---	---	---	---	21.0	20.0	20.5
30	24.0	20.5	22.5	---	---	---	---	---	---	19.5	18.5	19.0
31	---	---	---	28.5	27.0	---	---	---	---	---	---	---
MONTH	---	---	---	31.5	22.0	---	---	---	---	25.5	17.0	21.5

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA.

LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mi (0.6 km) downstream from mouth of Schuylkill River, in Philadelphia.

DRAINAGE AREA.--10,000 mi^2 (25,900 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1970 to December 1971.
Water temperatures: June 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C Aug. 5, 23, Sept. 1-4; minimum, 4.0°C Dec. 18, 19.

Period of record:
Water temperatures: Maximum, 30.0°C July 23-26, 1972; minimum, 2.0°C Jan. 12-17, 1973.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	22.0	22.0	16.5	15.5	16.0	12.0	11.0	11.5	---	---	---
2	23.0	21.5	22.0	16.0	15.0	15.5	11.5	10.5	11.0	---	---	---
3	23.0	22.0	22.5	15.5	15.0	15.5	11.5	10.5	11.0	---	---	---
4	23.5	22.0	23.0	15.0	14.5	15.0	11.5	10.5	11.0	---	---	---
5	23.5	22.0	23.0	15.0	14.5	14.5	11.5	10.5	11.0	---	---	---
6	23.5	22.0	22.5	14.5	13.0	14.0	12.0	10.5	11.0	---	---	---
7	23.0	22.0	22.5	13.5	13.0	13.5	11.5	10.5	10.5	---	---	---
8	23.0	21.5	22.0	13.5	13.0	13.0	11.0	10.0	10.5	---	---	---
9	23.0	21.5	22.0	13.5	12.0	13.0	10.5	10.0	10.0	---	---	---
10	23.0	21.5	22.0	13.0	11.5	12.0	9.5	8.5	9.0	---	---	---
11	23.0	21.5	22.0	12.0	11.5	11.5	8.5	7.0	7.5	---	---	---
12	22.0	21.5	21.5	11.5	11.5	11.5	8.0	6.5	7.0	---	---	---
13	22.0	21.0	21.5	11.5	11.0	11.5	7.0	6.5	6.5	---	---	---
14	21.5	21.0	21.5	11.5	11.5	11.5	7.0	7.0	7.0	---	---	---
15	21.5	20.5	21.0	12.0	11.5	11.5	7.0	6.5	7.0	---	---	---
16	21.0	20.5	20.5	12.0	11.0	11.5	6.5	5.5	6.0	---	---	---
17	20.5	20.0	20.0	11.5	11.0	11.0	6.0	5.0	5.5	---	---	---
18	20.0	19.0	19.5	11.0	10.5	10.5	5.0	4.0	4.5	---	---	---
19	20.0	19.0	19.5	11.0	10.5	11.0	4.5	4.0	4.0	---	---	---
20	19.5	18.5	19.0	11.0	10.5	11.0	---	---	---	---	---	---
21	19.5	18.5	19.0	11.0	10.5	11.0	---	---	---	---	---	---
22	19.0	18.5	19.0	11.5	11.0	11.0	---	---	---	---	---	---
23	19.5	18.5	19.0	11.5	11.0	11.0	---	---	---	---	---	---
24	19.0	18.5	18.5	11.5	11.0	11.0	---	---	---	---	---	---
25	18.5	18.0	18.0	12.0	11.5	11.5	---	---	---	---	---	---
26	18.5	18.0	18.0	11.5	11.5	11.5	---	---	---	---	---	---
27	18.5	18.0	18.0	12.0	11.5	11.5	---	---	---	---	---	---
28	18.5	17.0	17.5	13.0	11.5	12.0	---	---	---	---	---	---
29	18.5	17.0	17.5	13.0	11.5	12.0	---	---	---	---	---	---
30	18.5	17.0	18.0	13.0	11.0	11.5	---	---	---	---	---	---
31	17.0	16.5	16.5	---	---	---	---	---	---	---	---	---
MONTH	23.5	16.5	20.5	16.5	10.5	12.5	---	---	---	---	---	---

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	18.0	18.0	---
9	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
10	---	---	---	---	---	---	---	---	---	18.5	18.0	18.0
11	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
12	---	---	---	10.0	9.5	---	11.5	10.5	---	19.0	18.5	18.5
13	---	---	---	9.5	9.0	9.0	13.0	10.0	11.0	19.5	18.0	18.5
14	---	---	---	10.0	8.0	8.5	14.5	10.5	12.0	18.0	16.5	17.5
15	---	---	---	9.0	8.0	8.5	14.0	11.0	12.0	18.0	16.5	17.5
16	---	---	---	9.0	8.0	8.5	14.5	11.5	12.5	19.0	18.0	18.5
17	---	---	---	---	---	---	15.0	12.0	13.5	19.5	18.5	19.0
18	---	---	---	9.5	8.0	---	15.0	13.0	14.0	20.5	19.0	19.5
19	---	---	---	8.5	7.0	8.0	15.0	14.0	14.5	21.0	19.5	19.5
20	---	---	---	8.5	7.0	7.5	15.5	14.0	14.5	21.0	19.5	20.0
21	---	---	---	9.0	7.0	8.0	15.5	14.0	15.0	21.0	19.5	20.0
22	---	---	---	10.0	8.0	9.0	16.0	14.5	15.0	21.5	20.0	20.5
23	---	---	---	9.0	7.0	8.5	16.0	15.0	15.0	21.5	20.5	21.0
24	---	---	---	9.5	8.0	8.5	15.5	15.0	---	23.0	21.0	21.5
25	---	---	---	9.5	8.0	8.5	---	---	---	23.0	21.5	22.0
26	---	---	---	9.0	8.0	8.5	---	---	---	23.0	21.5	22.0
27	---	---	---	8.5	8.0	---	---	---	---	23.0	21.5	21.5
28	---	---	---	---	---	---	---	---	---	22.0	21.0	21.5
29	---	---	---	---	---	---	---	---	---	22.0	21.0	21.5
30	---	---	---	---	---	---	---	---	---	23.0	21.5	22.0
31	---	---	---	---	---	---	---	---	---	23.0	21.5	22.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	21.5	22.0	23.0	22.0	22.5	26.0	25.5	26.0	27.0	26.0	26.5
2	22.0	21.5	21.5	23.5	22.0	23.0	26.5	25.5	26.0	27.0	26.0	26.5
3	23.0	21.5	22.0	24.0	23.0	23.5	26.5	25.5	26.0	27.0	26.0	26.5
4	23.0	21.5	22.0	24.5	23.5	24.0	26.5	25.5	26.0	27.0	25.5	26.5
5	23.5	22.0	22.5	24.5	24.0	24.0	27.0	26.0	26.5	26.0	24.5	25.0
6	23.5	22.0	22.5	25.0	24.0	24.5	26.5	26.0	26.0	24.5	24.0	24.0
7	23.5	22.0	22.5	25.0	24.0	24.5	26.0	25.5	25.5	24.0	23.0	23.5
8	23.5	22.0	23.0	25.5	24.5	25.0	26.0	25.0	25.5	23.5	23.0	23.0
9	23.5	22.0	23.0	25.5	24.5	25.0	25.5	25.0	25.5	23.5	22.0	23.0
10	24.0	23.0	23.5	26.0	25.0	25.5	26.0	25.0	25.5	23.0	21.5	22.0
11	24.5	24.0	24.0	26.0	25.0	25.5	25.5	25.0	25.5	22.0	21.5	21.5
12	25.0	24.0	24.5	25.5	25.0	25.5	25.5	25.0	25.5	22.0	21.5	21.5
13	25.0	24.0	24.5	25.5	25.0	25.5	25.5	25.0	25.0	23.0	21.5	22.0
14	25.0	24.5	24.5	26.0	25.0	25.5	25.5	25.0	25.5	23.0	21.5	22.0
15	25.5	24.5	25.0	26.0	25.5	25.5	26.0	25.0	25.5	23.0	21.5	22.0
16	25.5	24.5	25.0	26.0	25.5	25.5	26.0	25.0	25.5	22.0	21.5	21.5
17	26.5	25.0	25.5	26.0	25.5	25.5	26.0	25.5	25.5	22.0	21.5	21.5
18	26.0	25.0	25.5	26.0	25.0	25.5	26.0	25.5	25.5	22.0	21.5	21.5
19	26.0	25.0	25.5	26.0	25.5	---	26.5	25.5	26.0	22.0	21.5	21.5
20	26.0	25.0	25.5	---	---	---	26.5	25.5	26.0	23.0	21.5	22.0
21	26.0	25.5	25.5	---	---	---	26.5	26.0	26.0	23.0	22.0	22.0
22	26.5	25.5	26.0	---	---	---	26.5	26.0	26.0	23.0	22.0	22.0
23	26.5	25.5	26.0	26.5	26.0	---	27.0	26.0	26.5	22.0	21.0	21.5
24	26.0	24.0	25.0	26.0	25.0	25.5	26.5	26.0	26.0	21.5	20.5	21.0
25	24.5	23.5	24.0	26.0	25.0	25.5	26.5	26.0	26.0	21.0	20.5	20.5
26	24.0	23.5	23.5	25.5	25.0	25.0	26.5	25.5	26.0	21.0	20.5	20.5
27	24.0	23.0	23.5	25.5	25.0	25.5	26.5	25.5	26.0	21.0	20.5	20.5
28	23.5	22.0	22.5	25.5	25.0	25.5	26.5	26.0	26.0	21.0	20.5	21.0
29	23.0	22.0	22.5	26.0	25.0	25.5	26.5	26.0	26.0	21.5	20.5	21.0
30	23.0	22.0	22.0	26.0	25.5	25.5	26.5	26.0	26.5	---	---	---
31	---	---	---	26.0	25.5	25.5	26.5	26.0	26.5	---	---	---
MONTH	26.5	21.5	24.0	26.5	22.0	25.0	27.0	25.0	26.0	27.0	20.5	22.5

01476200 DELAWARE RIVER AT EDDYSTONE, PA.

LOCATION.--Lat 39°50"57", long 75°19'43", Delaware County, at center of river on a line between piers 11 and 12 just above Chester Range front light through channel station +97.2 to the middle of Monds Island on the New Jersey shore.

DRAINAGE AREA.--10,200 mi^2 (26,400 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1968, October 1968 to September 1970 (partial-record station), February to September 1974.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB. 07...	--	4.3	760	--	80	--	12	4.3	8.8	1.8	18
MAR. 07...	1240	4.8	2500	--	200	--	15	5.5	14	2.2	33
APR. 04...	0920	4.8	--	--	--	--	14	4.8	8.8	1.9	29
MAY 02...	0930	4.4	--	1000	--	160	16	5.3	11	2.1	32
JUNE 06...	0950	3.2	--	90	--	1900	18	6.0	13	2.3	38
JULY 11...	0920	.5	--	80	--	110	22	8.2	24	3.6	35
AUG. 08...	0910	1.1	--	0	--	10	25	9.6	32	4.5	39
SEP. 05...	0910	1.1	--	--	--	--	--	--	--	--	42

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 07...	0	15	29	14	.2	1.9	--	.01	--	1.9	--
MAR. 07...	0	27	37	20	.2	1.2	--	.08	--	1.3	--
APR. 04...	0	24	32	13	.1	1.1	--	.11	--	1.2	--
MAY 02...	0	26	36	15	.3	--	1.3	--	.23	--	1.5
JUNE 06...	0	31	42	16	.1	--	.83	--	.14	--	.97
JULY 11...	0	29	63	26	.3	--	1.7	--	.42	--	2.1
AUG. 08...	--	32	70	42	.4	--	1.7	--	.38	--	2.1
SEP. 05...	--	34	53	22	.2	--	1.2	--	.13	--	1.3

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
FEB. 07...	.08	108	84	48	33	167	6.4	--	7	--	11
MAR. 07...	.11	134	115	60	33	224	6.6	--	16	--	13
APR. 04...	.10	--	94	55	31	167	6.6	--	33	20	12
MAY 02...	.08	123	114	62	36	197	6.6	14.5	--	--	13
JUNE 06...	.07	137	126	70	38	221	6.7	21.5	--	--	12
JULY 11...	.11	180	175	89	60	310	6.4	26.0	--	--	22
AUG. 08...	1.4	250	217	100	70	383	--	26.0	--	--	--
SEP. 05...	.08	199	--	--	--	289	--	25.5	--	--	--

01477050 DELAWARE RIVER AT CHESTER, PA.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, water-quality recorder located at auxiliary tidal-gaging station at end of Reynolds Aluminum Company pier, 0.5 mi (0.8 km) downstream from Chester Creek in Chester.

DRAINAGE AREA.--10,300 mi^2 (26,700 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1974.
Water temperatures: December 1961 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 853 micromhos Oct. 26; minimum, 143 micromhos Dec. 3.
Dissolved oxygen: Maximum, 9.7 mg/l Jan. 13, 15; minimum, 0.1 mg/l Sept. 20.
pH: Maximum, 8.4 Dec. 21, Jan. 10, 11; minimum, 5.9 Oct. 26.
Water temperatures: Maximum, 28.5°C Aug. 30, 31, Sept. 2, 3; minimum, 1.5°C Dec. 24, Jan. 14, 15.

Period of record:
Specific conductance (1963-74): Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 111 micromhos Apr. 26, 27, 1972.
Dissolved oxygen: Maximum, 11.5 mg/l Jan. 28, 29, 1964; minimum, 0.0 mg/l on many days.
pH (1968-74): Maximum, 8.7 Sept. 13, 14, 1971; minimum, 5.5 Dec. 10, 11, 1969.
Water temperatures: Maximum, 30.0°C July 13, 14, 1966, Apr. 3, 4, 1967, Aug. 4, 1968; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	519	427	466	397	381	389	---	---	---
2	---	---	---	449	421	435	399	379	386	---	---	---
3	---	---	---	443	421	---	407	143	373	---	---	---
4	---	---	---	433	401	424	409	387	397	---	---	---
5	---	---	---	433	393	415	411	385	397	---	---	---
6	---	---	---	405	385	396	395	357	374	---	---	---
7	---	---	---	407	383	395	377	361	370	253	219	---
8	---	---	---	421	387	402	375	367	371	257	233	245
9	---	---	---	415	379	401	373	357	368	263	235	246
10	---	---	---	403	383	396	367	343	355	271	239	251
11	---	---	---	399	379	394	349	317	335	297	239	272
12	---	---	---	407	397	401	321	307	314	311	275	291
13	---	---	---	411	399	406	307	297	302	299	273	284
14	---	---	---	421	391	407	303	285	293	295	275	284
15	452	396	---	437	391	408	287	277	281	289	277	284
16	466	396	422	435	379	405	279	273	276	291	285	288
17	479	401	431	401	377	389	279	273	---	291	285	288
18	531	403	455	421	379	395	---	---	---	289	281	285
19	542	416	461	415	383	400	---	---	---	287	283	285
20	563	434	486	395	379	388	265	235	---	291	285	288
21	553	434	477	451	381	401	299	231	263	293	285	289
22	561	459	503	453	399	421	271	227	245	307	293	302
23	613	450	524	457	397	426	237	213	225	301	295	298
24	661	446	538	475	395	430	235	195	215	311	301	305
25	726	450	---	479	391	428	---	---	---	311	305	308
26	853	521	---	505	389	430	---	---	---	309	301	304
27	833	525	655	517	399	451	---	---	---	303	299	301
28	821	510	636	509	403	451	---	---	---	307	301	303
29	766	511	---	459	385	410	---	---	---	305	291	299
30	759	455	565	413	379	396	---	---	---	297	285	---
31	559	443	494	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	519	377	413	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	335	315	326	247	227	238	269	235	243
2	---	---	---	327	313	317	241	221	231	263	235	248
3	---	---	---	321	305	310	239	219	226	299	265	284
4	219	211	---	321	299	308	239	221	230	299	273	285
5	217	211	214	319	283	301	245	225	236	273	254	264
6	215	209	212	291	275	283	240	213	224	273	254	262
7	219	213	216	291	269	278	215	205	208	279	261	270
8	235	219	226	275	261	267	207	204	206	279	269	274
9	249	235	243	263	257	260	223	204	213	283	269	277
10	263	251	257	263	249	256	227	207	216	289	275	284
11	269	263	266	277	249	257	225	197	212	289	279	285
12	265	255	258	279	257	265	215	189	199	291	274	283
13	269	259	266	273	257	264	209	185	197	275	259	266
14	283	269	277	273	255	262	203	189	196	277	263	271
15	295	283	290	265	257	261	219	189	205	273	247	264
16	303	293	300	265	257	261	215	195	207	271	231	244
17	307	301	304	265	247	256	221	199	209	251	227	232
18	311	305	309	257	243	249	223	199	210	233	219	226
19	315	309	311	257	237	248	241	201	212	227	219	224
20	311	305	308	251	241	245	229	207	217	224	219	221
21	331	307	316	253	235	243	235	211	221	225	211	216
22	333	315	324	259	229	238	235	204	224	227	207	213
23	335	321	328	245	237	241	225	200	213	215	205	---
24	333	319	326	253	239	244	233	207	216	213	207	---
25	335	321	329	245	233	238	219	207	210	207	207	---
26	353	319	335	249	229	238	227	211	221	215	207	211
27	341	327	---	243	223	230	231	215	224	219	209	215
28	345	323	332	243	225	231	251	231	241	245	213	226
29	---	---	---	249	225	231	253	231	243	---	---	---
30	---	---	---	239	229	235	247	231	239	---	---	---
31	---	---	---	231	217	224	---	---	---	---	---	---
MONTH	353	209	285	335	217	260	253	185	218	299	205	252

	JUNE			JULY			AUGUST			SEPTEMRER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	291	287	---	---	---	---	---	---	---	---	---	---
7	291	281	286	---	---	---	---	---	---	---	---	---
8	283	281	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	293	267	---
11	---	---	---	---	---	---	---	---	---	281	257	269
12	---	---	---	---	---	---	---	---	---	275	257	266
13	---	---	---	---	---	---	---	---	---	273	255	263
14	---	---	---	---	---	---	---	---	---	267	251	260
15	---	---	---	---	---	---	---	---	---	265	247	256
16	---	---	---	---	---	---	---	---	---	257	231	242
17	---	---	---	---	---	---	---	---	---	251	233	240
18	---	---	---	---	---	---	---	---	---	257	239	247
19	---	---	---	---	---	---	---	---	---	267	237	247
20	---	---	---	---	---	---	---	---	---	347	241	281
21	---	---	---	---	---	---	---	---	---	369	349	358
22	---	---	---	---	---	---	---	---	---	381	367	376
23	---	---	---	---	---	---	---	---	---	373	327	354
24	---	---	---	---	---	---	---	---	---	331	285	306
25	---	---	---	---	---	---	---	---	---	293	285	289
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	305	279	298
29	---	---	---	---	---	---	---	---	---	303	279	298
30	---	---	---	---	---	---	---	---	---	322	296	311
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	2.0	2.3	2.5	2.0	2.4	---	---	---
2	---	---	---	2.5	2.3	2.4	2.5	2.0	2.3	---	---	---
3	---	---	---	2.4	2.2	---	2.6	2.1	2.3	---	---	---
4	---	---	---	2.4	2.0	2.3	2.5	2.2	2.3	---	---	---
5	---	---	---	2.9	2.2	2.5	2.4	2.1	2.2	---	---	---
6	---	---	---	3.2	2.7	2.9	2.8	2.1	2.4	---	---	---
7	---	---	---	3.3	2.8	3.1	2.7	2.3	2.5	9.6	9.5	---
8	---	---	---	3.2	2.7	2.9	2.7	2.4	2.5	9.6	9.5	9.6
9	---	---	---	3.1	2.7	2.9	3.5	2.0	3.0	9.6	9.4	9.5
10	---	---	---	3.3	3.0	3.1	3.6	3.2	3.4	9.6	9.4	9.5
11	---	---	---	3.2	3.1	3.1	4.0	2.0	3.5	9.5	9.4	9.4
12	---	---	---	3.2	2.9	3.0	4.0	3.7	3.9	9.6	9.4	9.5
13	---	---	---	3.0	2.6	2.7	4.1	3.8	3.9	9.7	9.4	9.5
14	---	---	---	2.8	2.4	2.6	4.2	3.9	4.1	9.6	9.4	9.5
15	2.2	2.1	---	2.7	2.4	2.6	4.3	2.1	4.0	9.7	9.5	9.6
16	2.2	2.0	2.1	3.2	2.4	2.8	4.2	4.0	4.1	9.6	9.4	9.5
17	2.3	2.1	2.2	3.4	2.9	3.2	4.3	4.1	---	9.5	9.3	9.4
18	2.5	2.1	2.2	3.3	3.0	3.1	---	---	---	9.5	9.3	9.4
19	2.2	2.1	2.2	3.1	2.9	3.0	---	---	---	9.5	9.3	9.4
20	2.2	2.0	2.1	2.9	2.7	2.8	5.5	5.2	---	9.5	9.3	9.4
21	2.1	1.9	2.0	2.9	2.5	2.6	6.2	5.3	5.7	9.5	9.4	9.4
22	2.0	1.8	1.9	2.6	2.3	2.5	6.5	6.0	6.2	9.5	9.3	9.4
23	1.9	1.7	1.8	2.5	2.0	2.2	6.8	5.2	6.6	9.4	9.3	9.3
24	1.8	1.7	1.7	2.2	1.9	2.0	6.7	6.4	6.6	9.4	9.2	9.3
25	1.9	1.7	---	2.0	1.8	1.8	---	---	---	---	---	---
26	1.8	1.7	---	2.0	1.8	1.9	---	---	---	---	---	---
27	1.9	1.7	1.8	2.0	1.7	1.8	---	---	---	---	---	---
28	2.3	1.7	2.0	1.9	1.7	1.8	---	---	---	---	---	---
29	2.7	2.2	---	2.3	1.7	2.0	---	---	---	---	---	---
30	2.6	2.0	2.4	2.6	2.0	2.3	---	---	---	---	---	---
31	2.3	2.0	2.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	3.4	1.7	2.6	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.9	7.7	7.8	8.8	7.6	8.1	3.7	3.1	3.4
2	---	---	---	7.7	7.4	7.6	8.8	8.6	8.7	3.7	3.4	3.5
3	---	---	---	7.3	6.4	7.2	8.7	8.5	8.6	3.5	3.3	3.4
4	---	---	---	7.1	6.8	6.9	8.6	8.3	8.5	3.5	3.1	3.2
5	---	---	---	---	---	---	8.5	8.4	8.4	3.7	3.0	3.3
6	---	---	---	---	---	---	8.5	8.4	8.4	3.3	2.7	3.0
7	---	---	---	---	---	---	8.6	8.4	8.5	2.8	2.4	2.6
8	---	---	---	---	---	---	8.6	8.4	8.5	2.8	2.4	2.5
9	---	---	---	---	---	---	8.6	8.2	8.4	3.1	2.5	2.7
10	---	---	---	---	---	---	8.6	8.2	8.3	2.9	2.2	2.6
11	---	---	---	---	---	---	8.6	8.4	8.4	2.8	2.2	2.3
12	---	---	---	---	---	---	8.5	8.3	8.4	2.4	2.1	2.2
13	---	---	---	---	---	---	8.4	8.2	8.3	3.0	2.4	2.6
14	---	---	---	---	---	---	8.4	8.2	8.3	3.2	2.2	2.7
15	---	---	---	---	---	---	8.3	7.6	8.0	3.7	2.7	3.1
16	---	---	---	---	---	---	7.7	7.6	7.6	3.4	3.2	3.3
17	---	---	---	---	---	---	7.6	7.5	7.6	3.5	3.0	3.2
18	---	---	---	8.2	8.1	---	7.5	7.4	7.5	3.3	2.7	3.0
19	---	---	---	8.2	6.0	7.9	7.6	7.3	7.4	2.9	2.5	2.7
20	---	---	---	8.0	7.9	8.0	7.7	5.7	7.0	3.0	2.4	2.7
21	8.7	8.6	---	8.1	7.9	7.9	6.9	5.6	6.3	2.5	2.2	2.4
22	8.8	8.6	8.7	8.1	6.0	7.9	6.3	5.5	6.0	2.5	2.2	---
23	9.0	8.8	8.9	8.0	7.9	7.9	6.0	5.2	5.7	---	---	---
24	9.0	8.8	8.9	7.9	7.8	7.9	6.2	5.6	6.0	---	---	---
25	8.9	8.7	8.8	8.0	6.0	7.6	6.3	5.5	5.9	---	---	---
26	8.9	8.5	8.8	7.5	7.3	7.4	5.9	5.0	5.6	1.9	1.7	1.8
27	8.3	8.1	---	7.5	7.4	7.5	5.9	4.8	5.4	2.1	1.7	1.9
28	8.1	7.8	8.0	7.5	7.4	7.4	5.6	4.8	5.3	2.1	1.7	2.0
29	---	---	---	7.5	7.4	7.5	5.0	3.7	4.3	2.3	1.9	2.1
30	---	---	---	7.7	7.5	7.6	3.7	3.4	3.5	2.1	1.7	1.9
31	---	---	---	7.7	7.6	7.7	---	---	---	1.9	1.6	1.7
MONTH	---	---	---	---	---	---	8.8	3.4	7.2	3.7	1.6	2.7

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.9	1.5	1.7	---	---	---	---	---	---	2.2	0.8	1.3
2	1.7	1.2	1.4	---	---	---	---	---	---	1.7	0.8	1.0
3	1.6	1.0	1.5	---	---	---	---	---	---	2.4	0.8	1.2
4	2.0	1.3	---	---	---	---	---	---	---	1.4	0.8	1.0
5	---	---	---	---	---	---	1.6	1.2	---	2.9	0.9	1.7
6	---	---	---	---	---	---	1.6	0.7	1.0	2.2	1.5	1.9
7	---	---	---	---	---	---	1.2	0.6	0.8	2.0	1.0	1.3
8	---	---	---	---	---	---	1.1	0.5	0.7	2.1	0.8	1.3
9	---	---	---	---	---	---	1.0	0.4	0.7	2.2	0.8	1.3
10	---	---	---	---	---	---	0.9	0.4	0.6	2.2	0.8	1.2
11	---	---	---	---	---	---	1.8	0.6	1.3	2.0	0.7	1.3
12	---	---	---	---	---	---	2.7	1.1	1.8	1.4	0.9	1.1
13	---	---	---	---	---	---	2.3	0.9	1.4	1.8	0.9	1.2
14	---	---	---	---	---	---	2.3	0.8	1.4	2.2	0.9	1.3
15	---	---	---	---	---	---	2.6	1.2	1.6	2.1	0.9	1.4
16	---	---	---	---	---	---	2.4	1.2	1.7	2.5	0.9	1.6
17	1.6	1.4	---	---	---	---	2.7	1.1	1.8	2.0	0.4	1.1
18	1.5	1.2	1.3	---	---	---	2.1	1.0	1.6	1.2	0.3	0.6
19	1.7	1.1	1.3	---	---	---	1.9	1.1	1.4	0.8	0.2	0.3
20	1.6	1.2	1.3	---	---	---	1.5	0.9	1.1	0.4	0.1	0.3
21	1.4	0.9	1.1	---	---	---	1.4	0.9	1.0	0.9	0.2	0.4
22	1.3	0.9	1.1	---	---	---	1.6	0.8	1.2	1.0	0.2	0.4
23	1.3	1.1	---	---	---	---	1.9	0.9	1.3	2.5	0.2	0.8
24	---	---	---	---	---	---	1.2	0.5	0.9	2.9	1.1	2.1
25	---	---	---	---	---	---	1.2	0.6	0.9	2.8	1.8	2.4
26	---	---	---	---	---	---	2.7	0.8	1.4	---	---	---
27	---	---	---	---	---	---	3.6	0.7	1.6	2.4	2.4	---
28	---	---	---	---	---	---	1.6	0.7	1.2	3.1	1.5	2.1
29	---	---	---	---	---	---	3.3	0.8	1.5	2.5	1.1	1.7
30	---	---	---	---	---	---	3.4	0.9	1.6	3.3	1.5	2.1
31	---	---	---	---	---	---	2.8	0.9	1.6	---	---	---
MONTH	---	---	---	---	---	---	3.6	0.4	1.3	3.3	0.1	1.3

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.6	6.4	6.6	6.6	6.4	6.5	---	---	---
2	---	---	---	6.6	6.6	6.6	6.6	6.4	6.5	---	---	---
3	---	---	---	6.6	6.5	---	6.9	6.4	6.7	---	---	---
4	---	---	---	6.6	6.5	6.5	6.9	6.4	6.7	---	---	---
5	---	---	---	6.6	6.5	6.6	7.4	6.4	7.0	---	---	---
6	---	---	---	6.6	6.5	6.6	8.0	6.9	7.1	---	---	---
7	---	---	---	6.7	6.5	6.6	7.0	6.9	7.0	6.9	6.8	---
8	---	---	---	6.7	6.5	6.6	7.1	6.9	7.0	6.9	6.8	6.9
9	---	---	---	6.7	6.4	6.5	7.3	6.8	7.0	7.0	6.8	6.9
10	---	---	---	6.6	6.5	6.5	7.3	7.0	7.1	8.4	6.7	7.0
11	---	---	---	6.6	6.4	6.5	7.3	7.2	7.3	8.4	7.4	7.6
12	---	---	---	6.6	6.4	6.4	7.4	7.3	7.3	8.3	6.9	7.0
13	---	---	---	6.4	6.3	6.4	7.4	7.1	7.3	7.0	6.9	6.9
14	---	---	---	6.4	6.3	6.3	8.1	7.3	7.7	7.0	6.9	7.0
15	6.4	6.3	---	6.3	6.2	6.3	7.4	7.1	7.3	7.0	6.9	7.0
16	6.4	6.2	6.3	6.4	6.2	6.3	7.3	7.2	7.2	7.0	6.8	6.9
17	6.4	6.3	6.3	6.4	6.3	6.3	7.3	7.2	---	7.0	6.9	6.9
18	6.4	6.0	6.3	6.4	6.3	6.3	---	---	---	7.0	6.9	7.0
19	6.4	6.2	6.3	6.4	6.3	6.4	---	---	---	7.0	6.7	6.9
20	6.4	6.2	6.3	6.4	6.3	6.3	8.3	7.4	---	7.0	6.9	7.0
21	6.3	6.1	6.2	6.9	6.3	6.4	8.4	7.0	8.0	7.0	6.8	6.9
22	6.3	6.0	6.2	6.4	6.2	6.3	7.3	6.9	7.1	7.9	7.0	7.5
23	6.3	6.0	6.2	6.3	6.1	6.2	7.2	6.8	6.9	7.5	7.0	7.1
24	6.2	6.0	6.1	6.4	6.1	6.2	6.9	6.7	6.8	8.0	7.0	7.4
25	6.2	6.0	---	6.6	6.1	6.4	---	---	---	7.1	7.0	7.1
26	6.2	5.9	---	6.9	6.1	6.6	---	---	---	7.1	7.0	7.1
27	6.2	6.0	6.1	7.4	6.8	7.2	---	---	---	7.1	6.9	7.0
28	6.3	6.0	6.2	7.7	6.6	7.4	---	---	---	7.9	6.9	7.2
29	7.2	6.1	---	6.8	6.4	6.6	---	---	---	7.1	6.9	7.0
30	6.5	6.3	6.4	6.6	6.4	6.5	---	---	---	7.0	6.9	---
31	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.7	6.1	6.5	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.9	6.8	6.9	7.0	6.8	6.8
2	---	---	---	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9
3	---	---	---	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9
4	6.8	6.7	---	6.9	6.8	---	7.2	6.8	7.0	6.9	6.8	6.9
5	---	---	---	6.9	6.8	6.9	7.3	6.9	7.2	6.9	6.8	6.9
6	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.7	6.8
7	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8
8	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8
9	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.8	6.8
10	---	---	---	6.8	6.8	6.8	7.0	6.8	6.9	6.8	6.7	6.8
11	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	6.8	6.7	6.7
12	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	6.7	6.7	6.7
13	---	---	---	6.9	6.9	6.9	7.1	6.8	6.9	6.9	6.7	6.8
14	---	---	---	6.9	6.9	6.9	7.1	6.9	6.9	6.9	6.8	6.9
15	---	---	---	7.0	6.9	6.9	7.2	6.8	7.0	7.0	6.9	6.9
16	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.9
17	---	---	---	7.0	6.9	6.9	7.0	6.9	7.0	7.0	6.9	6.9
18	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	6.9	6.9	6.9
19	---	---	---	7.0	6.8	6.9	7.2	6.9	7.0	6.9	6.9	6.9
20	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.9
21	6.5	6.4	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
22	6.5	6.4	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
23	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
24	---	---	---	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---
25	---	---	---	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---
26	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9
27	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9
28	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9
29	---	---	---	6.9	6.8	6.9	7.0	6.8	7.0	7.0	6.8	6.8
30	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.8	6.8
31	---	---	---	7.0	6.9	6.9	---	---	---	6.8	6.8	6.8
MONTH	---	---	---	7.0	6.8	6.9	7.3	6.8	7.0	7.0	6.7	6.8

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
2	6.9	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
3	6.8	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
4	6.8	6.6	6.8	---	---	---	---	---	---	6.7	6.7	6.7
5	6.8	6.7	---	---	---	---	6.7	6.7	---	6.7	6.7	6.7
6	---	---	---	---	---	---	6.8	6.7	6.7	6.8	6.7	6.7
7	---	---	---	---	---	---	6.7	6.7	6.7	6.8	6.7	6.7
8	---	---	---	---	---	---	6.7	6.7	6.7	6.8	6.6	6.7
9	---	---	---	---	---	---	6.7	6.7	6.7	6.7	6.7	6.7
10	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.7	6.8
11	---	---	---	---	---	---	6.8	6.7	6.7	6.8	6.7	6.8
12	---	---	---	---	---	---	6.9	6.7	6.8	6.8	6.7	6.7
13	---	---	---	---	---	---	6.8	6.7	6.8	6.8	6.7	6.7
14	6.6	6.6	---	---	---	---	6.8	6.7	6.8	6.8	6.6	6.7
15	6.6	6.6	6.6	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7
16	6.6	6.5	6.6	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7
17	6.8	6.5	6.7	---	---	---	6.8	6.7	6.7	6.7	6.4	6.6
18	6.9	6.8	6.8	---	---	---	6.8	6.7	6.8	6.5	6.4	6.5
19	6.9	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
20	6.8	6.7	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
21	6.8	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
22	6.8	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
23	6.8	6.8	---	---	---	---	6.9	6.8	6.8	6.5	6.4	6.5
24	---	---	---	---	---	---	6.9	6.8	6.8	6.7	6.4	6.5
25	---	---	---	---	---	---	6.8	6.7	6.8	6.9	6.6	6.7
26	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
27	---	---	---	---	---	---	6.8	6.7	6.7	---	---	---
28	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.4	6.5
29	---	---	---	---	---	---	6.8	6.7	6.7	6.4	6.3	6.4
30	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.1	6.5
31	---	---	---	---	---	---	6.7	6.7	6.7	---	---	---
MONTH	---	---	---	---	---	---	6.9	6.7	6.7	6.9	6.1	6.6

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMRER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	16.5	14.5	15.5	12.0	10.5	11.0	---	---	---
2	---	---	---	15.5	14.5	15.0	11.0	9.5	10.0	---	---	---
3	---	---	---	15.5	14.0	---	12.0	10.0	10.5	---	---	---
4	---	---	---	15.0	14.0	14.5	11.5	10.5	10.5	---	---	---
5	---	---	---	15.5	14.5	15.0	13.5	10.0	11.5	---	---	---
6	---	---	---	15.0	13.0	13.5	12.0	10.5	11.5	---	---	---
7	---	---	---	13.5	12.0	12.5	11.0	10.0	10.5	6.0	5.0	---
8	---	---	---	13.0	11.5	12.0	10.5	10.0	10.0	5.5	4.5	5.0
9	---	---	---	12.0	11.0	11.5	10.5	9.0	9.5	5.5	4.0	4.5
10	---	---	---	11.5	10.0	10.5	10.0	9.0	9.5	4.5	4.0	4.0
11	---	---	---	10.5	9.5	10.0	9.5	6.5	8.0	5.0	4.0	4.5
12	---	---	---	10.5	9.5	10.0	8.0	6.0	6.5	5.0	4.0	4.5
13	---	---	---	10.5	9.5	10.0	8.0	6.0	6.5	4.5	2.0	3.5
14	---	---	---	11.0	9.5	10.5	8.5	6.0	6.5	3.5	1.5	2.5
15	20.5	20.0	---	12.0	10.5	11.0	6.5	5.5	5.5	3.5	1.5	2.5
16	20.5	19.0	20.0	12.0	10.5	11.0	6.0	4.5	5.0	4.5	2.0	3.5
17	19.5	18.0	19.0	10.5	10.0	10.0	4.5	4.0	---	4.5	3.0	4.0
18	18.5	17.0	18.0	10.0	9.5	---	---	---	---	4.5	2.0	3.5
19	18.0	16.5	17.5	12.0	11.0	---	---	---	---	3.5	2.0	3.0
20	18.0	16.5	17.0	12.0	10.5	11.0	6.5	4.0	---	4.0	2.0	3.0
21	17.0	16.0	16.5	12.0	10.5	11.5	6.5	4.0	5.5	4.0	2.0	3.0
22	18.0	16.5	16.5	12.0	11.0	11.5	4.0	2.0	3.0	5.5	3.5	4.0
23	19.0	16.0	17.5	13.0	11.5	12.0	3.5	1.5	2.5	5.5	3.5	4.5
24	19.0	18.0	18.5	13.0	11.5	12.0	3.5	2.0	---	5.0	3.5	4.5
25	18.5	18.0	---	13.0	12.0	12.5	---	---	---	---	---	---
26	18.5	17.0	---	13.0	11.5	12.5	---	---	---	---	---	---
27	18.5	18.0	18.0	13.5	11.5	13.0	---	---	---	---	---	---
28	18.0	16.5	17.0	14.5	12.0	13.5	---	---	---	---	---	---
29	18.5	16.0	---	14.0	11.5	12.5	---	---	---	---	---	---
30	17.0	15.0	16.0	12.0	11.0	11.5	---	---	---	---	---	---
31	16.5	15.0	15.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	16.5	9.5	12.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.5	7.0	8.0	8.0	6.0	6.5	18.5	16.0	17.0
2	---	---	---	9.0	7.0	8.5	8.5	6.0	6.5	18.0	16.0	16.5
3	---	---	---	10.0	8.0	9.0	10.0	6.5	8.0	17.0	16.0	16.5
4	---	---	---	10.0	8.5	9.0	11.0	8.5	9.5	16.5	15.5	16.0
5	---	---	---	9.5	7.0	8.5	11.5	9.5	10.5	16.5	15.5	15.5
6	---	---	---	9.5	7.0	8.5	11.0	9.5	10.0	16.0	15.5	16.0
7	---	---	---	10.0	8.0	9.0	11.0	9.0	10.0	16.0	15.5	16.0
8	---	---	---	10.0	8.5	9.0	11.5	10.0	11.0	16.5	15.5	16.0
9	---	---	---	9.0	8.0	8.5	11.5	10.0	10.5	18.0	16.0	16.5
10	---	---	---	9.0	8.0	8.5	11.0	9.5	10.0	18.0	16.5	17.0
11	---	---	---	9.5	7.0	8.5	11.5	10.0	10.5	18.5	16.5	17.5
12	---	---	---	10.0	8.0	9.0	12.0	10.0	11.0	19.0	17.0	18.0
13	---	---	---	9.0	7.0	8.5	12.0	10.0	11.0	19.5	18.0	19.0
14	---	---	---	9.5	7.0	8.0	11.5	9.5	10.5	21.0	19.0	19.5
15	---	---	---	9.5	7.0	8.5	11.0	9.5	10.5	21.5	19.5	20.0
16	---	---	---	11.0	8.5	9.0	11.0	9.5	10.0	21.5	20.0	20.5
17	---	---	---	9.5	8.0	8.5	13.0	10.0	11.0	22.0	20.5	21.0
18	---	---	---	9.0	6.5	8.0	13.5	11.0	12.0	22.0	21.0	21.5
19	---	---	---	10.0	7.0	9.0	13.5	12.0	12.5	23.0	21.5	22.0
20	---	---	---	10.5	8.5	9.5	14.0	12.0	12.5	23.0	21.0	21.5
21	6.0	5.0	---	10.0	8.5	9.5	14.5	13.0	13.5	21.5	20.0	20.5
22	8.5	4.5	6.5	9.5	8.0	8.5	15.5	14.0	14.5	22.0	20.5	21.0
23	8.0	5.5	6.5	10.5	8.5	9.5	15.5	14.5	15.0	22.0	21.5	---
24	7.0	4.5	6.0	11.5	9.5	10.5	14.0	13.5	13.5	23.0	21.0	---
25	6.5	5.5	6.0	11.0	8.0	9.0	14.0	13.0	13.5	22.0	22.0	---
26	6.0	5.0	5.5	9.0	7.0	8.0	14.5	13.5	14.0	22.0	21.5	22.0
27	8.0	6.0	---	9.0	7.0	8.0	15.5	13.5	14.5	22.0	21.5	21.5
28	8.5	5.5	7.0	9.5	7.0	8.5	16.0	14.0	15.0	22.0	21.0	21.5
29	---	---	---	9.0	7.0	8.0	16.5	15.0	15.5	22.0	21.0	21.5
30	---	---	---	8.5	6.5	7.5	17.0	15.5	16.0	23.5	21.5	22.0
31	---	---	---	7.0	6.0	6.5	---	---	---	23.0	22.0	22.0
MONTH	---	---	---	11.5	6.0	8.5	17.0	6.0	11.5	23.5	15.5	19.0

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	22.0	23.0	---	---	---	---	---	---	28.0	26.5	27.5
2	23.5	22.0	23.0	---	---	---	---	---	---	28.5	27.0	28.0
3	23.0	22.0	22.0	---	---	---	---	---	---	28.5	26.5	27.5
4	24.0	22.0	23.0	---	---	---	---	---	---	28.0	27.0	27.0
5	24.0	23.0	---	---	---	---	27.0	26.5	---	28.0	26.5	27.0
6	---	---	---	---	---	---	27.0	26.5	27.0	26.5	26.0	26.5
7	---	---	---	---	---	---	27.0	26.5	26.5	26.5	25.5	26.0
8	---	---	---	---	---	---	26.5	26.5	26.5	26.0	25.5	25.5
9	---	---	---	---	---	---	26.5	26.0	26.5	25.5	25.0	25.0
10	---	---	---	---	---	---	27.0	26.0	26.5	25.0	24.5	24.5
11	---	---	---	---	---	---	26.5	25.5	26.0	24.5	24.0	24.5
12	---	---	---	---	---	---	26.5	25.5	26.0	24.5	24.0	24.5
13	---	---	---	---	---	---	26.5	26.0	26.0	24.5	24.0	24.5
14	---	---	---	---	---	---	27.0	26.0	26.5	25.0	24.5	24.5
15	24.0	23.0	---	---	---	---	27.0	26.0	26.5	24.5	24.0	24.0
16	24.5	23.0	23.5	---	---	---	27.0	26.0	26.5	24.0	23.5	24.0
17	24.5	23.5	24.0	---	---	---	27.0	26.5	26.5	23.5	23.0	23.5
18	24.5	23.5	24.0	---	---	---	27.0	26.5	26.5	23.5	23.0	23.0
19	25.5	23.5	24.0	---	---	---	27.0	26.5	26.5	23.5	23.0	23.0
20	25.0	24.0	24.5	---	---	---	27.0	26.5	26.5	23.5	23.0	23.0
21	25.5	24.5	25.0	---	---	---	28.0	26.5	27.0	23.5	23.0	23.5
22	25.5	24.5	25.0	---	---	---	27.0	26.5	27.0	24.0	23.0	23.5
23	25.5	25.0	---	---	---	---	28.0	26.0	26.5	23.5	22.0	23.0
24	---	---	---	26.5	26.0	---	28.0	26.5	27.0	23.0	21.5	22.0
25	---	---	---	26.5	26.0	26.0	28.0	26.5	26.5	21.5	21.0	21.0
26	---	---	---	26.0	26.0	---	28.0	26.5	27.0	---	---	---
27	---	---	---	---	---	---	28.0	26.5	27.0	21.0	21.0	---
28	---	---	---	---	---	---	28.0	27.0	27.0	21.5	20.5	21.0
29	---	---	---	---	---	---	28.0	27.0	27.5	21.5	20.5	21.0
30	---	---	---	---	---	---	28.5	27.0	28.0	21.0	20.5	20.5
31	---	---	---	---	---	---	28.5	27.0	28.0	---	---	---
MONTH	---	---	---	---	---	---	28.5	25.5	26.5	28.5	20.5	24.0

01477200 DELAWARE RIVER AT MARCUS HOOK, PA.

LOCATION.--Lat 39°48'01", long 75°25'10", Delaware County, at center of river on a line from the water end of the Maritime Exchange reporting station pier through channel station +128.7 to vertical lift bridge over Oldmans Creek.

DRAINAGE AREA.--10,400 mi^2 (26,900 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to May 1969, October 1969 to September 1970 (partial-record station), October 1970 to September 1972, December 1973 to September 1974.

REMARKS.--Samples collected approximately 3 ft (1 m) from surface. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
DEC. 06...	0915	3.1	1400	--	190	--	24	10	35	4.6	19
JAN. 03...	--	3.9	1300	--	110	--	13	4.0	7.1	1.8	17
FEB. 07...	--	4.7	1900	--	120	--	14	4.7	9.5	1.9	21
MAR. 07...	1200	5.0	2100	--	220	--	17	6.0	15	2.3	35
APR. 04...	0840	5.0	--	--	--	--	14	4.9	9.0	1.9	30
MAY 02...	0840	4.7	--	2800	--	220	18	5.3	10	2.1	26
JUNE 06...	0920	3.5	--	90	--	150	17	6.0	13	2.3	37
JULY 11...	0835	.5	--	40	--	150	23	8.5	31	3.7	27
AUG. 08...	1105	.7	--	0	--	130	27	14	65	5.9	39
SEP. 05...	0830	.7	--	--	--	--	--	--	--	--	36

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
DEC. 06...	1	17	72	54	.4	4.4	--	.01	--	4.4	--
JAN. 03...	0	14	27	11	.2	1.8	--	.01	--	1.8	--
FEB. 07...	0	17	30	15	.2	2.1	--	.01	--	2.1	--
MAR. 07...	0	29	40	23	.2	1.3	--	.08	--	1.4	--
APR. 04...	0	25	31	13	.2	1.1	--	.11	--	1.2	--
MAY 02...	0	21	38	16	.3	--	1.7	--	.12	--	1.8
JUNE 06...	0	30	42	17	.0	--	.97	--	.13	--	1.1
JULY 11...	0	22	71	46	.3	--	2.2	--	.34	--	2.5
AUG. 08...	--	32	77	110	.5	--	--	--	--	--	--
SEP. 05...	--	30	56	27	.3	--	1.4	--	.19	--	1.6

01477200 DELAWARE RIVER AT MARCUS HOOK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
DEC. 06...	.04	261	214	101	84	413	8.4	--	7	--	.0
JAN. 03...	.06	107	77	49	35	154	7.5	--	6	--	1.0
FEB. 07...	.11	113	91	54	37	182	6.7	--	8	--	7.0
MAR. 07...	.08	151	126	67	38	244	6.6	--	12	--	14
APR. 04...	.10	--	94	55	31	170	6.6	--	33	23	12
MAY 02...	.03	157	118	67	45	194	6.5	15.5	--	--	13
JUNE 06...	.08	141	124	67	37	222	6.7	21.5	--	--	12
JULY 11...	.01	222	209	92	70	383	6.4	26.5	--	--	17
AUG. 08...	--	403	319	130	93	639	--	27.0	--	--	--
SEP. 05...	.07	193	--	--	--	307	--	25.5	--	--	--

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.

LOCATION.--Lat 39°57'42", long 75°48'06", Chester County, on left bank at bridge on Legislative Route 15068 at Modena and 300 ft (91 km) upstream from Dennis Run.

DRAINAGE AREA.--55.0 mi^2 (142 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970 (partial-record station), October 1970 to September 1974.
Water temperatures: May 1971 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 503 micromhos Aug. 28; minimum, 132 micromhos May 12.
Dissolved oxygen: Maximum, 14.1 mg/l Feb. 5; minimum, 2.1 mg/l Aug. 31.
pH: Maximum, 9.8 July 19; minimum, 6.5 June 16, 17.
Water temperatures: Maximum, 33.0°C Aug. 29; minimum, 3.5°C Jan 9, 13, 14, Feb. 5, 10.

Period of record:
Specific conductance: Maximum, 549 micromhos Apr. 11, 1972; minimum, 97 micromhos Nov. 25, 1971.
Dissolved oxygen: Maximum, 14.3 mg/l Feb. 18, 1973; minimum, 3.0 mg/l Aug. 30, 1973.
pH: Maximum, 10.0 Dec. 21, 1971; minimum, 6.6 Oct. 2, 3, 1972, June 24, Oct. 2, 3, 1973, June 24, 1974.
Water temperatures: Maximum, 31.5°C Aug. 30 to Sept. 1; 1973; minimum, 1.0°C Jan. 16, 1972.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	322	271	297	308	271	286	360	283	317	280	240	258
2	309	280	293	353	278	305	335	277	301	320	235	273
3	305	278	292	352	288	318	350	269	302	315	260	285
4	330	272	294	338	285	313	370	304	330	335	235	270
5	320	268	293	360	291	320	312	192	244	315	245	276
6	330	270	294	335	277	304	268	183	228	300	255	273
7	320	269	289	360	288	313	278	243	257	300	250	268
8	311	269	289	340	283	307	342	253	285	299	249	265
9	315	277	293	350	298	326	295	170	213	350	270	301
10	304	230	277	335	273	303	255	181	214	---	---	---
11	310	271	288	322	276	297	270	228	250	---	---	---
12	320	264	290	338	267	294	290	230	253	270	220	---
13	340	270	303	345	274	302	300	240	262	305	260	---
14	316	283	297	345	295	319	250	200	223	290	265	276
15	338	280	309	345	280	311	280	220	253	310	250	283
16	320	287	302	338	290	310	330	230	267	295	250	272
17	330	270	300	352	275	309	270	238	256	280	235	252
18	338	268	302	312	272	295	290	245	263	300	230	258
19	339	280	309	318	275	291	290	240	259	460	250	301
20	350	300	326	292	252	---	270	240	---	280	249	260
21	330	279	302	---	---	---	---	---	---	270	245	---
22	380	281	322	---	---	---	---	---	---	---	---	---
23	350	287	322	---	---	---	---	---	---	---	---	---
24	369	295	330	---	---	---	---	---	---	---	---	---
25	352	293	325	---	---	---	---	---	---	---	---	---
26	360	300	324	---	---	---	---	---	---	---	---	---
27	366	295	327	---	---	---	220	210	---	---	---	---
28	350	291	322	330	282	---	270	215	241	---	---	---
29	340	210	255	360	254	293	290	235	264	---	---	---
30	290	199	242	325	275	302	280	240	258	---	---	---
31	316	269	293	---	---	---	290	250	266	---	---	---
MONTH	380	199	300	---	---	---	370	170	---	---	---	---

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	240	189	213	309	260	272
2	---	---	---	---	---	---	242	220	231	292	250	272
3	---	---	---	---	---	---	280	222	245	277	220	242
4	---	---	---	---	---	---	280	210	246	300	228	250
5	---	---	---	---	---	---	257	211	237	264	240	247
6	---	---	---	---	---	---	264	215	241	250	238	243
7	---	---	---	---	---	---	253	230	244	252	250	245
8	---	---	---	---	---	---	260	236	248	259	230	239
9	---	---	---	---	---	---	204	170	190	269	230	245
10	---	---	---	---	---	---	240	200	216	230	180	207
11	---	---	---	---	---	---	263	228	244	280	209	230
12	---	---	---	---	---	---	270	240	251	243	132	202
13	---	---	---	---	---	---	259	165	214	194	143	171
14	---	---	---	---	---	---	231	178	209	230	191	214
15	---	---	---	---	---	---	251	230	239	258	220	236
16	---	---	---	---	---	---	262	235	249	267	224	246
17	---	---	---	---	---	---	250	230	243	270	230	249
18	---	---	---	---	---	---	253	229	240	267	230	245
19	---	---	---	---	---	---	260	228	236	259	220	237
20	---	---	---	280	270	---	249	218	234	250	220	237
21	---	---	---	279	172	226	262	222	237	269	231	249
22	---	---	---	236	190	211	275	238	252	272	239	250
23	---	---	---	251	212	232	258	229	238	251	198	232
24	---	---	---	270	232	244	268	220	237	250	198	231
25	---	---	---	258	221	240	269	230	247	260	230	245
26	---	---	---	270	238	249	255	235	246	249	230	239
27	---	---	---	290	229	250	295	248	262	249	238	242
28	---	---	---	286	250	262	293	240	257	260	230	242
29	---	---	---	260	220	246	289	255	271	256	236	242
30	---	---	---	229	160	202	299	262	277	280	240	254
31	---	---	---	188	159	173	---	---	---	268	232	247
MONTH	---	---	---	---	---	---	299	165	240	309	132	239

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	238	190	219	299	252	270	339	293	314	344	311	320
2	230	212	222	312	256	274	327	210	300	379	298	320
3	250	204	228	304	272	292	280	210	241	319	145	259
4	257	230	245	309	276	291	291	279	283	270	220	254
5	260	239	249	299	220	278	322	271	289	338	275	302
6	290	248	266	300	270	285	334	270	303	350	289	311
7	306	246	265	312	273	288	320	290	301	301	203	237
8	283	239	256	330	287	304	350	280	303	299	258	271
9	272	240	255	324	294	306	315	285	298	310	280	293
10	280	251	265	331	299	308	330	280	302	500	290	334
11	299	262	276	329	296	309	310	299	---	413	304	331
12	280	255	268	326	281	301	---	---	---	345	303	321
13	297	259	275	328	279	302	---	---	---	352	302	320
14	279	253	268	327	283	303	---	---	---	330	280	302
15	279	239	256	334	290	308	---	---	---	339	285	305
16	320	230	262	340	292	310	---	---	---	325	289	306
17	276	222	250	349	291	315	---	---	---	360	299	327
18	283	252	266	341	290	316	---	---	---	335	300	314
19	290	249	267	335	279	302	---	---	---	360	297	315
20	298	269	281	349	283	303	339	300	---	370	307	326
21	294	177	243	329	280	304	320	303	313	342	240	309
22	253	176	216	333	287	308	352	300	321	310	274	291
23	243	190	220	348	295	313	349	314	331	310	289	296
24	239	190	217	343	269	302	343	209	307	358	293	321
25	229	190	211	349	270	298	334	290	305	318	287	299
26	254	211	232	352	299	315	322	301	314	330	283	306
27	272	239	247	339	279	313	360	309	334	360	298	324
28	240	200	226	351	300	317	503	320	360	327	185	260
29	242	190	216	331	272	316	382	312	344	260	185	212
30	273	232	247	319	210	286	336	238	305	270	240	255
31	---	---	---	319	280	298	338	294	317	---	---	---
MONTH	320	176	247	352	210	301	---	---	---	500	145	298

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.2	6.8	9.3	7.7	8.4	11.7	10.2	10.9	12.8	12.2	12.5
2	7.4	5.4	6.1	9.3	7.5	8.3	12.6	10.4	11.4	13.2	12.9	---
3	7.7	4.9	6.2	9.6	7.4	8.3	12.3	10.3	11.3	---	---	---
4	8.1	4.9	6.1	10.6	7.9	8.9	11.9	9.9	10.9	---	---	---
5	7.8	5.1	6.2	9.4	7.9	8.5	11.6	9.7	10.6	---	---	---
6	8.8	5.9	7.2	10.3	8.1	9.2	12.0	11.6	11.8	---	---	---
7	9.8	6.6	8.1	10.0	8.3	9.0	12.3	11.7	12.0	13.0	12.8	---
8	9.5	6.5	7.9	11.4	8.2	9.5	12.3	11.5	11.9	13.8	13.0	13.5
9	9.4	5.9	7.3	10.9	8.6	9.7	13.4	11.4	12.8	13.6	13.3	13.4
10	9.6	5.8	7.4	12.1	9.6	10.9	13.5	12.2	13.0	13.6	13.3	---
11	9.5	6.0	7.3	13.0	10.6	11.7	12.7	12.2	12.5	---	---	---
12	10.0	5.7	7.4	12.9	9.7	11.3	13.0	12.2	12.6	---	---	---
13	10.4	5.6	7.5	11.1	8.7	9.9	12.6	11.6	12.1	---	---	---
14	10.2	5.3	7.3	10.7	8.1	9.2	12.5	11.7	12.2	---	---	---
15	10.5	5.1	7.4	10.1	7.5	8.5	12.4	11.8	12.1	---	---	---
16	10.2	5.0	6.9	8.9	7.1	8.0	12.6	11.7	12.2	---	---	---
17	10.0	5.7	7.5	9.7	8.2	9.0	13.2	12.5	13.0	---	---	---
18	9.5	6.0	7.3	10.7	8.5	9.5	13.4	13.0	13.2	---	---	---
19	10.1	5.8	7.5	10.7	8.5	9.3	13.4	12.5	13.1	---	---	---
20	10.3	5.3	7.0	10.5	8.9	---	12.4	12.0	---	---	---	---
21	10.0	5.3	7.0	---	---	---	---	---	---	---	---	---
22	8.1	4.8	---	---	---	---	---	---	---	---	---	---
23	11.3	6.1	---	---	---	---	---	---	---	---	---	---
24	11.5	6.1	8.3	---	---	---	---	---	---	---	---	---
25	11.0	6.1	8.0	---	---	---	---	---	---	---	---	---
26	10.9	5.7	7.7	---	---	---	---	---	---	---	---	---
27	11.3	5.7	7.8	9.0	8.2	---	10.8	10.0	---	---	---	---
28	11.6	6.0	8.3	9.9	8.2	8.9	11.5	11.0	11.3	12.2	11.2	---
29	10.0	6.7	8.7	11.3	9.1	10.5	11.8	11.4	11.6	11.9	11.2	11.5
30	10.4	8.7	9.8	12.0	10.2	10.9	12.2	11.4	11.9	11.8	11.1	11.5
31	9.7	7.9	8.9	---	---	---	12.3	12.2	12.2	12.0	10.9	11.4
MONTH	11.6	4.8	7.5	13.0	7.1	---	13.5	9.7	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.4	11.0	11.9	13.2	11.0	12.0	10.8	9.2	10.1	9.3	4.2	6.3
2	12.2	11.6	12.0	12.8	10.6	11.8	9.8	8.6	9.3	6.2	4.0	---
3	13.2	12.3	12.8	12.8	9.6	11.2	10.2	7.2	8.9	---	---	---
4	13.7	12.5	13.0	11.6	8.4	10.1	8.2	7.4	7.6	---	---	---
5	14.1	13.2	13.7	10.1	8.1	8.8	8.2	7.2	7.6	---	---	---
6	13.8	13.0	13.5	10.8	7.6	8.7	8.8	8.2	8.4	---	---	---
7	13.0	12.5	12.7	9.6	6.4	8.0	9.8	7.3	8.7	---	---	---
8	13.5	12.6	13.1	8.2	6.6	---	8.6	7.5	8.0	---	---	---
9	13.4	12.8	13.2	---	---	---	9.2	8.4	9.0	---	---	---
10	13.6	12.3	13.1	---	---	---	10.3	9.2	9.7	---	---	---
11	13.2	11.9	12.6	11.2	8.6	---	11.0	8.6	10.0	---	---	---
12	13.0	11.2	12.3	10.8	8.8	---	10.0	7.6	9.0	---	---	---
13	12.8	10.4	11.7	11.2	9.2	10.1	9.1	7.6	8.3	---	---	---
14	12.4	10.4	11.4	11.4	9.0	10.0	8.2	6.8	7.8	---	---	---
15	13.8	11.0	12.3	11.6	9.0	---	8.0	6.8	7.4	---	---	---
16	14.0	11.7	12.8	---	---	---	8.7	6.8	7.7	---	---	---
17	13.8	11.4	12.5	---	---	---	10.2	6.4	8.2	---	---	---
18	14.1	11.2	12.5	---	---	---	9.5	6.4	7.8	---	---	---
19	12.6	10.6	11.4	---	---	---	9.7	6.9	8.6	---	---	---
20	12.1	10.6	11.3	---	---	---	11.5	7.8	10.0	---	---	---
21	12.8	10.1	11.5	---	---	---	10.8	6.8	9.1	---	---	---
22	10.0	7.8	9.3	---	---	---	9.6	6.0	7.8	---	---	---
23	10.1	8.2	9.2	---	---	---	9.1	6.3	7.4	---	---	---
24	10.3	7.8	9.1	---	---	---	10.6	7.4	8.7	---	---	---
25	9.8	7.6	8.7	---	---	---	10.2	6.7	8.7	---	---	---
26	13.5	10.9	---	---	---	---	10.6	6.4	8.4	---	---	---
27	13.0	10.2	11.8	11.5	7.8	---	10.9	6.2	8.2	---	---	---
28	12.8	10.2	11.5	10.8	7.6	8.9	10.8	4.8	8.2	---	---	---
29	---	---	---	9.7	7.6	8.9	9.2	3.3	6.3	---	---	---
30	---	---	---	10.9	9.6	10.2	9.0	3.4	5.8	---	---	---
31	---	---	---	11.3	10.7	11.0	---	---	---	---	---	---
MONTH	14.1	7.6	11.9	---	---	---	11.5	3.3	8.4	---	---	---

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.4	5.6	6.6	9.8	3.0	6.3	7.8	3.3	5.4
2	---	---	---	8.2	5.7	6.8	8.7	3.3	5.0	6.2	4.0	4.8
3	---	---	---	9.2	4.6	6.7	5.8	3.2	4.9	7.1	4.3	5.9
4	---	---	---	9.8	5.3	7.2	5.9	3.0	4.3	8.0	6.6	7.0
5	9.2	4.4	---	9.6	5.4	6.3	8.7	3.0	5.1	8.1	5.4	6.9
6	9.7	4.1	---	7.8	4.8	6.3	8.0	3.8	5.9	7.4	5.9	6.6
7	6.4	4.7	---	8.3	4.6	6.5	8.9	4.5	---	8.4	6.4	7.6
8	8.3	4.2	6.0	8.8	4.2	6.5	6.9	3.2	5.1	8.2	5.9	7.1
9	8.7	3.1	6.0	9.4	4.3	6.7	8.0	3.0	4.8	9.4	5.9	7.4
10	8.0	2.3	5.2	9.6	3.8	6.2	8.0	2.6	4.8	9.2	5.8	7.4
11	9.5	2.6	5.5	9.0	3.8	6.1	3.3	3.1	---	7.8	4.8	6.4
12	7.9	3.6	5.5	10.0	4.6	6.8	---	---	---	8.0	4.6	6.0
13	8.7	3.8	5.9	11.2	4.4	7.5	---	---	---	8.1	4.4	5.8
14	8.4	3.6	5.6	11.6	4.0	7.6	---	---	---	8.4	4.4	6.1
15	7.9	3.2	5.5	12.0	3.5	6.5	---	---	---	9.8	5.3	6.9
16	---	---	---	11.1	3.8	6.8	---	---	---	9.8	5.4	7.0
17	---	---	---	8.6	3.7	---	---	---	---	10.0	5.6	7.2
18	---	---	---	10.5	3.6	---	---	---	---	11.1	5.6	7.5
19	9.9	6.8	---	9.4	4.1	6.2	---	---	---	11.2	4.8	7.1
20	10.1	6.9	8.2	9.5	3.8	6.1	7.6	4.0	---	9.5	4.1	6.1
21	8.6	5.6	7.2	8.8	3.9	6.0	6.8	3.6	5.1	9.8	4.5	6.0
22	6.8	5.5	6.0	8.6	3.5	5.8	8.0	4.4	5.8	8.6	5.4	6.7
23	6.6	5.9	6.1	9.1	3.2	5.3	7.9	3.5	5.3	11.0	5.7	7.6
24	7.6	6.1	6.7	6.4	3.3	4.5	7.6	4.1	5.7	11.2	6.4	8.1
25	7.5	6.6	7.0	7.3	2.8	5.5	7.0	4.0	5.5	10.8	5.9	7.8
26	7.4	5.9	6.8	9.0	2.6	5.6	7.4	4.2	5.4	11.7	5.8	7.9
27	6.5	5.4	6.0	9.2	4.0	5.9	7.9	3.6	5.0	12.8	6.0	8.3
28	7.0	5.9	6.5	8.8	3.8	5.9	6.6	3.1	4.6	8.7	6.6	7.6
29	7.4	5.9	6.8	10.8	3.9	6.5	10.2	3.4	5.5	9.0	7.4	8.3
30	7.2	5.9	6.5	8.4	4.4	6.5	7.8	4.3	5.3	10.2	7.0	8.3
31	---	---	---	9.1	3.6	6.4	7.8	2.1	5.3	---	---	---
MONTH	---	---	---	12.0	2.6	6.3	---	---	---	12.8	3.3	7.0

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.0	7.3	7.4	7.1	7.3	8.0	7.4	7.7	7.8	7.6	7.7
2	7.3	7.0	7.2	7.6	7.0	7.3	7.9	7.2	7.6	7.8	7.6	7.7
3	7.3	6.9	7.1	7.7	7.2	7.4	9.4	7.3	8.0	7.9	7.6	7.7
4	7.2	6.8	7.0	7.9	7.2	7.5	8.0	7.4	7.7	7.9	7.6	7.7
5	7.2	6.8	7.0	7.5	7.2	7.3	7.8	7.4	7.5	8.0	7.7	7.8
6	7.2	6.8	7.0	7.7	7.3	7.5	7.6	7.4	7.5	7.8	7.7	7.8
7	7.3	6.8	7.0	7.7	7.3	7.5	7.7	7.4	7.5	8.2	7.7	7.9
8	7.3	6.8	7.0	7.7	7.3	7.4	7.5	7.4	7.4	8.2	8.1	8.1
9	7.7	6.8	7.2	8.1	7.2	7.5	7.7	7.3	7.5	8.3	8.0	8.1
10	7.8	7.0	7.3	8.0	7.4	7.7	7.5	7.4	7.4	8.2	8.0	8.1
11	7.6	7.0	7.2	8.2	7.5	7.7	7.6	7.4	7.5	8.7	7.9	8.2
12	8.1	6.9	7.3	8.4	7.5	7.8	7.8	7.4	7.6	8.2	8.0	8.1
13	8.2	7.0	7.5	8.1	7.3	7.7	7.6	7.4	7.5	8.2	8.1	8.1
14	8.2	7.0	7.5	8.1	7.4	7.6	7.8	7.4	7.5	8.2	8.1	8.1
15	8.0	7.0	7.4	7.9	7.1	7.5	7.6	7.4	7.5	8.1	7.4	7.8
16	7.7	6.9	7.2	7.5	7.2	7.4	9.1	7.4	7.8	7.9	7.5	7.7
17	7.5	7.0	7.2	9.2	7.3	7.8	7.9	7.6	7.7	7.7	7.5	7.6
18	7.2	6.9	7.0	7.9	7.3	7.5	7.7	7.6	7.6	7.6	7.5	7.6
19	7.9	6.9	7.3	7.8	7.3	7.5	7.9	7.5	7.7	7.7	7.5	7.5
20	8.1	7.0	7.4	7.4	7.2	---	7.7	7.6	---	7.6	7.5	7.5
21	8.2	7.1	7.5	---	---	---	---	---	---	7.5	7.4	---
22	8.0	7.1	7.5	---	---	---	---	---	---	---	---	---
23	8.0	7.0	7.4	---	---	---	---	---	---	---	---	---
24	7.8	7.1	7.4	---	---	---	---	---	---	---	---	---
25	7.8	7.0	7.3	---	---	---	---	---	---	---	---	---
26	8.2	7.0	7.4	---	---	---	---	---	---	---	---	---
27	8.1	7.1	7.4	7.4	7.2	---	8.3	7.8	---	---	---	---
28	8.2	7.1	7.5	8.0	7.2	7.5	8.0	7.7	7.8	7.9	7.6	---
29	7.6	7.2	7.4	7.8	7.4	7.6	7.8	7.7	7.7	9.0	7.6	8.0
30	7.6	7.3	7.4	8.4	7.3	7.7	7.7	7.7	7.7	8.3	7.8	8.0
31	7.5	7.3	7.4	---	---	---	7.9	7.6	7.7	8.4	7.7	7.9
MONTH	8.2	6.8	7.3	9.2	7.0	---	9.4	7.2	---	9.0	7.4	---

DELAWARE RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.7	7.9	8.5	7.2	7.6	7.6	7.2	7.3	8.8	7.2	7.9
2	7.9	7.6	7.7	8.1	7.2	7.5	7.7	7.2	7.4	8.8	7.2	7.8
3	7.9	7.6	7.7	8.4	7.2	7.7	8.2	7.2	7.5	8.3	7.2	7.6
4	8.3	7.6	7.8	8.3	7.1	7.5	8.2	7.4	7.5	8.6	7.2	7.8
5	7.8	7.5	7.6	7.7	7.0	7.3	7.8	7.4	7.5	8.8	7.2	7.8
6	7.8	7.4	7.5	7.9	6.8	7.2	7.9	7.4	7.6	8.3	7.1	7.5
7	8.3	7.4	7.6	8.1	6.8	7.2	7.9	7.5	7.6	8.6	7.1	7.8
8	7.7	7.4	7.6	7.8	6.7	7.1	7.9	7.4	7.5	8.9	7.2	8.0
9	7.8	7.3	7.5	7.2	6.8	7.0	7.7	7.3	7.4	7.9	7.1	7.4
10	7.7	7.4	7.5	7.6	6.8	7.1	7.6	7.2	7.4	8.1	7.1	7.4
11	7.8	7.3	7.5	7.5	6.7	7.0	7.9	7.2	7.4	8.3	7.1	7.6
12	7.7	7.3	7.5	7.7	6.7	7.0	8.2	7.2	7.4	7.7	7.1	7.3
13	8.2	7.2	7.5	7.5	6.7	7.0	8.1	6.9	7.2	7.7	7.0	7.4
14	8.2	7.2	7.5	7.4	6.7	6.9	7.1	6.9	7.0	7.8	7.1	7.3
15	8.0	7.2	7.5	7.8	6.7	7.1	7.7	7.0	7.3	7.9	7.4	7.6
16	7.7	7.1	7.3	7.1	6.7	6.8	7.5	7.1	7.2	8.2	7.3	7.7
17	8.2	7.2	7.5	7.4	6.7	6.9	9.0	7.0	7.7	8.4	7.2	7.7
18	8.0	7.2	7.4	7.3	6.6	6.9	8.5	7.5	7.8	8.5	7.2	7.6
19	8.3	7.1	7.5	7.4	6.6	6.9	8.8	7.4	7.7	8.6	7.1	7.6
20	8.1	7.3	7.6	7.6	6.6	6.9	8.7	7.5	7.9	8.4	7.0	7.6
21	8.2	7.3	7.6	7.7	6.6	6.8	8.6	7.4	7.9	9.0	7.0	7.8
22	8.4	7.2	7.5	6.8	6.6	6.8	8.7	7.3	7.8	9.0	7.3	8.0
23	8.3	7.4	7.7	7.0	6.6	6.7	8.2	7.2	7.6	7.6	7.2	7.4
24	8.3	7.3	7.6	7.2	6.6	6.8	8.3	7.2	7.6	8.6	7.2	7.7
25	8.0	7.3	7.6	7.2	6.7	6.9	8.9	7.2	7.9	8.6	7.3	7.9
26	8.6	7.4	7.8	7.3	6.7	6.9	8.7	7.4	7.9	8.8	7.3	7.9
27	8.3	7.3	7.7	8.1	6.7	7.3	8.8	7.3	7.9	8.5	7.2	7.7
28	8.4	7.2	7.6	8.1	7.2	7.5	8.8	7.2	7.9	8.4	7.1	7.6
29	---	---	---	7.6	7.3	7.4	8.7	7.2	7.8	7.3	7.0	7.2
30	---	---	---	8.5	7.4	7.5	8.7	7.1	7.8	8.4	6.9	7.3
31	---	---	---	7.3	7.2	7.2	---	---	---	8.5	7.2	7.7
MONTH	8.6	7.1	7.6	8.5	6.6	7.1	9.0	6.9	7.6	9.0	6.9	7.6

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.3	7.7	8.4	7.1	7.6	9.0	6.9	7.8	8.8	7.1	7.8
2	7.7	7.3	7.5	8.4	7.2	7.7	8.7	6.9	7.5	7.4	6.8	7.1
3	8.4	7.3	7.7	8.6	7.1	7.7	7.9	7.0	7.4	8.9	6.8	7.4
4	8.7	7.3	7.9	8.7	7.1	7.8	8.1	6.9	7.4	8.7	7.3	7.7
5	8.7	7.2	7.8	8.1	7.1	7.4	8.5	6.9	7.5	8.3	7.5	7.8
6	8.9	7.2	8.0	7.9	7.2	7.4	8.6	7.0	7.8	7.9	7.3	7.5
7	8.3	6.9	7.5	8.3	7.1	7.5	8.4	7.2	---	7.7	7.3	7.5
8	8.0	7.0	7.4	8.5	7.0	7.6	8.3	7.0	7.5	7.9	7.2	7.5
9	8.3	6.9	7.5	8.6	7.0	7.7	8.7	7.0	7.6	8.3	7.2	7.7
10	8.1	6.7	7.2	8.5	7.0	7.6	8.9	7.1	7.8	8.5	7.2	7.7
11	8.6	6.7	7.7	8.6	6.9	7.6	7.2	7.1	---	8.3	7.2	7.6
12	8.3	6.9	7.4	8.8	7.0	7.7	---	---	---	8.3	7.2	7.5
13	8.3	7.0	7.6	8.9	7.0	7.8	---	---	---	8.2	7.1	7.5
14	8.2	6.9	7.4	9.0	7.0	7.9	---	---	---	8.3	7.0	7.5
15	7.6	6.7	7.1	8.7	6.8	7.5	---	---	---	8.6	7.1	7.5
16	6.8	6.5	6.7	8.4	6.8	7.4	---	---	---	8.1	7.0	7.4
17	8.2	6.5	7.2	8.3	6.7	7.3	---	---	---	8.3	7.0	7.4
18	8.1	6.9	7.4	9.7	6.7	7.9	---	---	---	8.8	7.2	7.8
19	8.7	6.8	7.7	9.8	7.5	8.4	---	---	---	9.0	7.4	8.0
20	8.6	7.0	7.7	9.3	7.6	8.3	8.6	7.6	---	8.9	7.3	7.9
21	8.2	7.0	7.4	9.4	7.5	8.3	8.9	7.3	8.0	8.8	7.2	7.7
22	7.6	7.0	7.2	9.1	7.5	8.1	8.3	7.3	7.6	8.7	7.1	7.7
23	7.1	7.0	7.0	9.1	7.4	7.9	8.7	7.3	7.8	8.9	7.4	8.0
24	7.3	6.9	7.1	7.7	7.2	7.3	9.0	7.2	7.9	9.0	7.6	8.4
25	7.4	7.2	7.3	8.4	7.1	7.6	8.9	7.2	7.9	8.9	7.6	8.0
26	7.6	7.2	7.3	8.1	7.0	7.4	8.4	7.2	7.6	9.0	7.5	8.1
27	7.5	7.1	7.3	8.4	7.0	7.5	8.7	7.2	7.7	7.9	7.4	7.6
28	7.6	7.2	7.3	8.6	6.9	7.5	8.7	7.0	7.7	7.9	7.4	7.6
29	7.6	7.2	7.4	8.7	6.9	7.7	8.9	7.0	7.7	7.6	7.3	7.4
30	8.0	7.2	7.5	8.3	7.1	7.5	8.6	7.2	7.6	8.2	7.3	7.6
31	---	---	---	8.6	6.9	7.7	8.7	7.1	7.8	---	---	---
MONTH	8.9	6.5	7.4	9.8	6.7	7.7	---	---	---	9.0	6.8	7.7

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	19.0	21.5	17.0	14.5	15.5	14.5	11.5	13.0	8.5	7.0	8.0
2	23.0	21.0	22.0	18.5	14.0	16.0	13.5	8.5	11.5	8.0	6.5	7.0
3	25.5	21.0	23.5	18.5	15.0	16.5	14.0	10.0	11.5	6.5	6.0	6.5
4	26.0	21.5	24.0	16.0	13.5	14.5	14.5	10.5	12.5	5.5	5.0	5.5
5	25.5	21.5	23.5	15.5	13.5	14.5	15.0	12.0	13.5	6.0	4.5	5.0
6	25.0	19.0	22.0	14.0	12.0	13.0	13.0	11.5	12.0	6.0	5.5	5.5
7	22.0	18.0	20.5	14.0	12.0	13.0	12.0	10.5	11.0	7.0	5.5	6.0
8	23.5	19.0	21.5	14.5	10.5	12.5	11.5	11.0	11.0	6.0	4.5	5.0
9	23.5	20.0	22.0	14.0	10.5	13.0	11.0	8.0	9.0	6.0	3.5	5.0
10	23.0	20.5	22.0	12.0	9.0	10.5	9.5	7.0	8.5	6.0	5.0	5.5
11	23.0	20.0	21.0	11.5	8.5	10.0	9.5	8.0	9.0	6.0	4.5	5.0
12	23.5	19.0	21.0	13.5	9.0	11.0	9.5	8.0	8.5	5.5	4.0	4.5
13	23.5	19.0	21.0	15.5	11.5	13.5	9.5	8.0	9.0	5.0	3.5	4.0
14	22.0	19.5	20.5	18.0	14.0	15.5	9.5	8.5	9.0	5.5	3.5	4.5
15	23.5	18.5	21.0	19.0	14.5	16.5	9.5	8.0	9.0	6.5	4.5	5.5
16	22.0	19.0	20.5	17.0	11.5	15.5	9.0	6.0	7.5	8.0	5.0	6.0
17	20.5	18.0	19.0	15.5	12.0	14.0	6.0	4.5	5.0	6.5	5.0	6.0
18	19.0	16.5	18.0	14.0	11.0	12.5	6.5	4.5	5.0	5.5	4.5	5.0
19	20.0	16.0	18.0	16.0	13.0	14.0	7.0	4.5	6.0	8.0	5.5	6.5
20	20.0	16.0	18.0	13.5	11.5	---	6.5	6.0	---	6.5	5.5	6.0
21	20.0	16.5	18.0	---	---	---	---	---	---	7.0	6.5	---
22	20.5	15.5	18.0	---	---	---	---	---	---	---	---	---
23	20.5	15.0	17.5	---	---	---	---	---	---	---	---	---
24	21.0	16.5	18.5	---	---	---	---	---	---	---	---	---
25	21.0	16.0	18.5	---	---	---	---	---	---	---	---	---
26	21.0	17.0	19.0	---	---	---	---	---	---	---	---	---
27	21.0	17.0	19.0	18.5	18.0	---	10.0	10.0	---	---	---	---
28	18.5	16.5	17.5	18.5	16.0	17.5	10.0	9.0	9.5	10.0	9.5	---
29	18.0	15.0	16.0	16.0	13.0	14.5	9.5	8.5	9.0	10.5	9.5	10.0
30	15.0	14.0	14.5	14.5	11.5	13.0	10.0	8.0	8.5	11.5	9.5	10.0
31	17.0	14.5	15.5	---	---	---	8.5	8.0	8.0	11.0	9.0	10.0
MONTH	26.0	14.0	20.0	19.0	8.5	---	15.0	4.5	---	11.5	3.5	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	8.0	8.5	10.0	8.0	9.0	9.0	5.5	7.0	21.5	18.5	19.5
2	8.5	6.5	8.0	9.5	8.0	9.0	10.0	7.0	8.5	20.0	15.5	17.0
3	6.5	5.5	5.5	11.5	8.5	10.0	14.0	8.5	11.0	16.5	13.5	15.5
4	6.5	5.0	5.5	14.0	10.5	12.0	16.5	13.5	15.0	18.5	14.0	16.0
5	6.5	3.5	4.5	14.0	12.0	13.5	16.5	16.0	---	16.5	14.0	15.0
6	6.5	4.5	5.0	13.5	11.5	12.0	---	---	---	15.5	14.0	15.0
7	7.0	5.5	6.0	16.0	12.0	13.5	---	---	---	16.0	13.0	14.5
8	5.5	4.5	5.0	14.5	12.0	13.5	---	---	---	18.0	12.0	15.0
9	7.0	4.0	5.0	12.0	10.0	10.5	---	---	---	15.5	15.0	15.0
10	7.0	3.5	4.5	12.0	9.5	10.5	10.0	8.5	---	18.0	14.5	15.5
11	7.0	4.5	5.5	12.0	9.0	10.5	11.5	6.0	9.0	19.5	14.0	17.0
12	8.0	5.0	6.0	11.5	9.5	10.5	13.5	8.5	11.5	18.0	14.0	16.0
13	9.0	5.0	7.0	10.5	7.0	8.5	13.5	11.5	12.5	15.5	14.0	14.5
14	9.0	6.5	7.5	11.5	7.0	9.0	14.0	11.5	12.5	19.5	14.0	17.0
15	8.5	5.5	6.5	12.0	8.0	10.0	14.0	11.5	13.0	22.0	17.0	19.5
16	7.0	5.0	6.0	11.5	9.0	10.5	14.5	10.0	12.0	24.5	19.5	21.5
17	8.5	5.5	6.5	9.0	6.5	8.0	14.5	9.5	12.0	25.0	20.5	23.0
18	9.0	5.5	7.0	10.5	6.5	8.5	15.0	10.5	13.0	25.5	20.5	23.0
19	8.0	6.5	7.0	12.0	9.0	10.5	13.5	11.0	12.0	22.0	20.5	21.0
20	8.0	6.0	7.0	11.0	10.0	---	12.0	9.0	10.0	24.0	18.5	21.0
21	9.5	6.0	7.5	10.5	9.0	---	15.5	10.0	13.0	23.5	19.0	21.0
22	11.5	9.0	10.0	13.0	8.0	10.0	16.5	13.5	15.0	24.0	19.0	21.5
23	10.0	6.5	8.0	15.0	9.5	12.0	16.5	14.0	15.5	23.0	20.5	21.5
24	9.5	6.0	7.5	15.5	12.0	14.0	14.0	11.5	12.5	24.0	19.5	21.0
25	8.5	5.5	6.5	14.0	10.0	11.5	16.0	10.5	13.5	23.0	19.5	20.5
26	8.5	4.5	6.0	14.0	10.5	12.0	18.0	13.0	15.0	21.0	18.0	19.5
27	9.5	5.0	7.0	13.0	9.5	11.0	18.5	13.0	15.5	20.0	18.0	19.0
28	10.5	6.0	8.5	13.0	10.5	11.5	19.0	14.0	16.5	21.5	18.0	19.5
29	---	---	---	11.5	6.5	9.0	21.0	16.5	18.5	20.5	18.5	19.5
30	---	---	---	6.5	4.5	6.0	22.0	18.0	20.0	23.5	20.0	21.5
31	---	---	---	5.5	4.0	4.5	---	---	---	23.0	20.0	21.0
MONTH	11.5	3.5	6.5	16.0	4.0	10.5	22.0	5.5	13.0	25.5	12.0	18.5

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	20.0	20.5	26.5	21.0	23.5	30.0	24.0	26.5	31.0	26.0	28.0
2	20.5	19.0	19.5	28.0	21.5	24.5	29.5	24.0	26.0	29.0	24.5	26.0
3	23.5	18.5	20.5	29.5	24.0	26.5	27.0	22.0	25.0	27.0	21.0	24.0
4	24.5	19.5	22.0	31.0	26.0	28.0	28.0	25.5	26.0	24.0	21.0	22.5
5	26.0	20.5	22.5	28.5	25.5	26.5	28.0	24.5	26.0	26.0	21.0	23.5
6	26.5	21.0	23.5	29.0	25.0	26.5	28.5	23.5	25.5	24.0	21.0	23.0
7	24.5	21.0	22.5	30.0	24.5	26.5	26.5	24.5	25.0	22.0	19.0	20.0
8	23.5	21.0	22.0	30.5	25.5	27.5	26.5	23.5	25.0	23.5	20.5	21.5
9	26.5	21.0	23.5	31.5	26.0	28.5	27.0	23.5	25.0	25.5	22.0	23.5
10	29.5	23.5	26.0	31.5	27.0	28.5	28.5	23.5	25.5	26.5	23.0	24.5
11	28.5	24.0	25.5	30.0	24.5	27.5	24.0	23.5	---	26.5	23.5	25.0
12	26.5	23.0	24.0	29.5	24.0	26.0	---	---	---	29.0	24.5	26.0
13	27.0	22.0	24.0	29.5	23.5	26.0	---	---	---	30.0	25.0	27.0
14	26.0	21.5	23.0	30.5	24.5	27.0	---	---	---	27.0	23.5	26.0
15	26.5	21.0	23.5	31.0	26.5	28.0	---	---	---	26.0	21.0	23.0
16	25.0	23.0	24.0	30.5	25.5	27.5	---	---	---	26.5	22.0	24.0
17	27.0	21.5	24.0	31.0	24.5	27.0	---	---	---	28.0	23.5	25.0
18	26.5	21.5	23.5	30.5	25.0	27.5	---	---	---	27.0	23.5	24.5
19	27.0	21.5	24.0	30.0	25.5	27.5	---	---	---	28.0	23.5	25.0
20	28.0	24.0	25.5	29.0	24.5	26.5	30.5	26.0	---	28.5	24.5	26.0
21	27.0	22.0	24.5	29.5	24.0	25.5	29.5	25.0	27.0	28.0	22.0	26.0
22	26.0	21.5	24.0	29.5	23.5	25.5	29.0	25.5	26.5	25.0	21.0	23.0
23	24.0	20.0	21.0	28.0	24.0	25.0	30.5	26.0	27.5	24.0	19.0	21.5
24	23.0	19.5	20.5	25.0	23.5	24.0	30.5	24.0	27.5	23.5	18.5	20.5
25	20.0	18.5	19.0	26.5	23.0	24.5	29.0	24.5	26.5	23.5	19.0	20.5
26	22.0	18.5	20.0	26.5	24.5	25.0	28.0	25.5	26.0	23.5	20.0	21.5
27	22.0	20.0	20.5	29.0	25.0	26.5	30.5	25.5	27.5	24.5	19.5	21.5
28	19.5	17.0	18.5	29.5	25.0	27.0	31.0	26.5	29.0	21.5	18.0	20.5
29	21.0	16.5	19.0	30.5	25.5	27.5	33.0	28.0	29.5	21.0	18.0	19.0
30	24.0	19.0	21.0	28.5	23.0	25.5	30.5	26.5	28.0	21.0	18.0	19.5
31	---	---	---	29.5	24.0	26.5	30.5	26.0	28.0	---	---	---
MONTH	29.5	16.5	22.5	31.5	21.0	26.5	---	---	---	31.0	18.0	23.5

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA.

LOCATION.--Lat 40°03'19", long 75°43'00", Chester County, on left bank 1,000 ft (305 m) downstream from Marsh Creek Dam, 0.2 mi (0.3 km) upstream from mouth, and 3.0 mi (4.8 km) north of Downingtown.

DRAINAGE AREA.--20.3 mi^2 (52.6 km^2).

PERIOD OF Record.--Water temperatures: October 1973 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 30.5°C July 9, 10; minimum, 1.0°C Dec. 22, Feb. 9, 10.

Period of record:
Water temperatures: Maximum, 30.5°C July 9, 10, 1974; minimum, 1.0°C Dec. 22, 1973, Feb. 9, 10, 1974.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	13.0	16.0	13.5	11.0	12.0	9.5	8.5	9.0	4.5	3.5	4.0
2	17.0	15.5	---	14.5	8.5	11.0	10.5	7.0	8.0	4.0	2.0	2.5
3	---	---	---	14.0	10.5	11.5	10.5	7.0	9.0	3.0	2.0	2.5
4	---	---	---	12.0	8.0	10.0	9.5	7.0	8.0	3.0	2.0	2.5
5	---	---	---	10.0	8.0	9.0	9.0	6.5	7.5	3.0	2.0	2.5
6	---	---	---	9.0	5.5	7.0	9.0	6.5	7.5	3.0	3.0	3.0
7	---	---	---	9.0	5.0	6.5	8.5	7.0	7.5	3.5	3.0	3.0
8	---	---	---	8.5	3.5	6.0	8.5	8.0	8.0	3.5	3.0	3.0
9	---	---	---	9.0	6.5	7.5	9.0	6.5	7.5	3.5	3.0	3.0
10	---	---	---	7.0	3.5	5.0	8.0	7.0	7.5	3.5	3.0	3.5
11	---	---	---	7.0	1.5	4.0	7.0	6.0	6.5	3.5	3.0	3.5
12	18.5	13.5	---	8.0	3.0	5.5	6.5	5.5	6.0	3.5	3.0	3.5
13	19.5	13.0	15.5	12.0	6.0	8.0	6.0	5.0	5.5	3.5	3.0	3.5
14	18.5	14.5	16.5	13.5	9.0	10.5	6.5	5.5	6.0	3.5	3.0	3.5
15	18.0	12.0	15.0	15.5	9.0	11.5	6.0	5.0	5.5	4.0	3.5	3.5
16	16.0	13.0	14.5	14.5	11.5	13.0	5.0	4.0	4.5	4.0	3.5	4.0
17	13.0	9.5	11.5	11.0	7.0	10.0	3.5	2.0	3.0	4.0	3.0	4.0
18	11.0	9.0	10.0	7.0	6.5	6.5	4.0	2.0	3.0	3.5	3.5	3.5
19	13.5	7.0	10.5	7.0	6.0	6.5	3.5	2.0	2.5	4.0	3.5	4.0
20	14.5	9.5	11.5	9.0	6.5	7.0	3.5	1.5	3.0	4.0	4.0	4.0
21	15.0	9.0	12.0	9.0	7.0	7.5	4.5	1.5	2.5	4.0	2.0	4.0
22	15.0	9.0	11.5	9.5	8.0	8.5	3.0	1.0	1.5	4.0	4.0	4.0
23	15.5	8.5	12.0	10.0	8.0	9.0	4.5	1.5	2.5	4.0	3.5	4.0
24	15.5	9.0	12.0	9.0	9.0	9.0	4.5	2.0	2.5	4.0	4.0	4.0
25	15.0	9.0	11.5	11.0	9.0	9.5	3.0	2.0	2.5	4.0	4.0	4.0
26	16.5	10.5	13.0	9.5	9.5	9.5	6.0	2.0	3.0	4.0	3.5	4.0
27	15.0	10.5	13.0	10.5	9.5	10.0	9.5	6.0	7.5	4.5	4.0	4.0
28	13.0	9.5	11.0	12.0	10.5	11.0	8.0	6.0	7.0	4.0	4.0	4.0
29	14.0	11.5	12.5	11.5	9.5	10.5	6.5	3.0	4.0	4.5	4.0	4.0
30	13.0	10.5	11.5	10.5	9.0	9.5	4.5	3.0	4.0	4.5	4.0	4.0
31	13.0	9.0	10.5	---	---	---	4.0	3.0	3.0	4.5	4.0	4.5
MONTH	---	---	---	15.5	1.5	8.5	10.5	1.0	5.5	4.5	2.0	3.5

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.0	9.0	5.0	6.5	10.0	5.5	7.0	---	---	---
2	4.0	4.0	4.0	6.5	4.0	5.5	12.0	6.5	8.0	---	---	---
3	4.0	3.5	4.0	9.5	5.5	7.5	15.0	6.5	9.5	14.0	11.5	---
4	3.5	3.0	3.5	9.5	7.0	8.0	14.5	11.5	13.0	17.0	10.5	13.0
5	4.0	2.0	2.5	11.5	9.5	10.5	14.5	13.0	13.0	13.5	10.0	11.5
6	4.0	2.0	2.5	9.5	8.0	---	13.5	10.0	11.0	13.0	10.5	11.5
7	4.0	2.0	3.0	15.5	9.5	---	12.0	5.5	8.5	14.5	9.5	11.5
8	3.0	1.0	1.5	9.5	7.0	8.5	11.5	9.0	9.5	13.5	9.0	11.0
9	3.0	1.0	1.5	7.0	6.5	6.5	9.0	7.0	7.5	12.0	11.0	11.5
10	3.0	1.5	2.0	10.5	6.0	8.0	14.0	4.5	7.5	19.5	11.0	14.0
11	4.0	1.5	2.5	9.5	5.0	7.0	13.5	5.5	9.5	17.0	10.5	14.0
12	4.0	1.5	2.5	9.0	6.5	7.5	13.5	8.0	10.5	15.0	12.0	13.5
13	5.0	1.5	2.5	7.0	4.0	5.5	16.5	11.0	13.0	15.5	11.0	13.0
14	5.5	2.0	3.5	9.0	3.0	5.5	14.5	12.0	13.0	18.0	10.0	13.5
15	5.5	2.0	3.5	8.0	4.0	5.5	13.5	12.0	13.0	20.5	13.0	17.0
16	3.5	2.0	2.0	8.0	7.0	7.5	18.0	9.5	12.5	22.0	16.0	18.5
17	4.5	2.0	2.5	8.0	5.0	6.5	17.0	9.5	12.5	22.0	14.5	18.0
18	5.0	2.0	3.0	10.5	4.0	6.5	18.5	10.0	13.5	18.5	17.0	---
19	4.0	2.0	3.0	11.0	6.0	8.0	13.0	10.0	11.5	---	---	---
20	6.5	4.0	4.5	12.0	6.5	8.5	17.0	7.0	11.0	---	---	---
21	7.0	3.0	5.0	9.0	6.0	7.0	15.5	9.5	12.0	---	---	---
22	9.5	5.0	6.5	10.0	4.0	6.5	16.5	13.0	14.5	---	---	---
23	9.5	6.0	8.0	10.5	5.0	7.5	19.5	14.5	16.0	---	---	---
24	8.0	4.0	6.0	12.0	9.0	10.0	14.5	11.5	12.5	---	---	---
25	7.0	2.0	4.5	9.5	5.0	7.5	16.5	9.5	12.0	---	---	---
26	5.0	2.0	3.0	9.0	4.0	6.5	18.0	10.5	13.5	---	---	---
27	6.5	2.0	3.5	9.5	5.5	7.5	17.0	10.5	13.5	---	---	---
28	6.0	4.0	4.5	9.5	7.0	8.5	16.5	12.0	14.0	---	---	---
29	---	---	---	9.0	4.0	6.5	19.0	14.5	16.5	---	---	---
30	---	---	---	5.5	3.0	4.0	19.5	15.5	---	---	---	---
31	---	---	---	7.0	4.0	5.0	---	---	---	---	---	---
MONTH	9.5	1.0	3.5	15.5	3.0	7.0	19.5	4.5	12.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	28.5	25.5	26.5	27.0	25.5	26.5
2	---	---	---	---	---	---	26.5	24.5	25.5	26.5	25.0	25.5
3	---	---	---	26.5	26.0	---	25.5	23.5	24.5	26.0	23.5	25.0
4	---	---	---	28.5	25.0	26.0	25.5	24.5	24.5	24.5	24.0	24.5
5	---	---	---	26.5	26.0	26.5	26.5	24.5	25.0	24.5	23.0	23.5
6	---	---	---	28.0	25.5	26.5	28.0	24.5	26.0	23.5	22.0	23.0
7	---	---	---	30.0	26.0	27.5	26.5	25.0	26.0	23.0	22.0	22.0
8	---	---	---	30.0	26.5	28.0	25.5	24.5	25.0	23.5	22.0	22.5
9	---	---	---	30.5	27.0	28.5	26.0	24.5	24.5	23.5	21.5	22.5
10	---	---	---	30.5	28.0	29.0	25.5	24.5	24.5	23.0	23.0	---
11	---	---	---	28.5	26.5	27.5	26.5	23.5	24.5	---	---	---
12	---	---	---	27.0	25.5	26.5	26.5	23.5	25.0	---	---	---
13	---	---	---	28.0	24.5	26.0	26.5	24.5	25.5	---	---	---
14	---	---	---	29.5	25.0	27.0	28.0	24.5	26.0	---	---	---
15	---	---	---	30.0	26.5	27.5	28.0	25.5	26.5	---	---	---
16	---	---	---	28.5	26.5	27.0	28.0	25.5	26.5	---	---	---
17	---	---	---	29.0	25.5	27.0	27.0	25.5	26.5	---	---	---
18	---	---	---	27.0	25.5	26.5	26.5	24.5	25.5	---	---	---
19	---	---	---	28.0	25.0	26.0	26.5	25.0	25.5	---	---	---
20	---	---	---	27.0	25.0	26.0	27.0	25.5	26.5	---	---	---
21	---	---	---	28.0	24.5	25.5	---	---	---	---	---	---
22	---	---	---	28.5	24.5	26.0	---	---	---	---	---	---
23	---	---	---	25.5	23.5	24.5	---	---	---	---	---	---
24	---	---	---	24.0	23.5	23.5	---	---	---	---	---	---
25	---	---	---	25.5	23.0	24.0	---	---	---	---	---	---
26	---	---	---	25.0	24.0	24.5	---	---	---	---	---	---
27	---	---	---	25.5	23.5	24.0	---	---	---	---	---	---
28	---	---	---	25.0	24.0	24.5	---	---	---	---	---	---
29	---	---	---	26.0	24.0	25.0	---	---	---	---	---	---
30	---	---	---	28.0	23.0	25.0	27.0	26.5	---	---	---	---
31	---	---	---	29.0	25.0	27.0	27.0	26.0	26.5	---	---	---
MONTH	---	---	---	30.5	23.0	26.0	---	---	---	---	---	---

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.

LOCATION.--Lat 39°58'07", long 75°40'25", Chester County, on left bank at downstream side of Sugars Bridge (State Highway 322), 2,000 ft (610 m) upstream from Valley Creek, 1.5 mi (2.4 km) north of Marshallton, and 3.3 mi (5.3 km) southeast of Downingtown.

DRAINAGE AREA.--89.9 mi^2 (232.8 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1966 and 1970 (partial-record station), October 1970 to September 1972, March 1973 to September 1974.
Water temperatures: February to June 1972, March 1973 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 380 micromhos Feb. 7; minimum, 85 micromhos Apr. 13.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 16; minimum, 1.1 mg/l Aug. 17.
pH: Maximum, 9.6 Sept. 4; minimum, 5.4 Oct. 24, 26.
Water temperatures: Maximum, 29.5°C July 9, 10; minimum, 0.5°C Jan. 9.

Period of record:
Specific conductance (1972-74): Maximum, 380 micromhos Feb. 7, 1974; minimum, 85 micromhos Apr. 13, 1974.
Dissolved oxygen (1972-74): Maximum, 15.9 mg/l Feb. 16, 1974; minimum, 1.1 mg/l Aug. 17, 1974.
pH (1972-74): Maximum, 9.9 May 13, June 5, 1973; minimum, 5.4 Oct. 24, 26, 1973.
Water temperatures: Maximum, 30.0°C Aug. 30, 1973; minimum, 0.5°C Jan. 9, 1974.

REMARKS.--Water years 1972 and 1973 were erroneously reported under 01480700 East Branch Brandywine Creek near Downingtown, Pa.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	298	279	287	280	265	271	300	280	289	225	210	215
2	297	259	284	270	261	---	312	288	300	270	215	239
3	277	250	262	---	---	---	320	300	309	240	230	231
4	293	274	285	---	---	---	320	295	305	290	230	255
5	305	282	292	301	291	---	300	199	248	250	238	241
6	307	291	301	297	281	290	240	200	223	245	230	239
7	310	285	295	294	277	287	285	240	257	250	230	234
8	300	279	290	297	270	280	262	242	251	230	225	229
9	300	288	294	295	270	280	250	162	207	250	220	232
10	300	283	289	300	285	293	230	168	199	378	230	283
11	302	280	289	302	279	289	250	230	241	378	240	307
12	306	281	294	294	273	283	265	250	257	238	218	227
13	310	285	295	289	285	---	275	250	260	250	230	240
14	311	290	302	300	276	282	250	200	216	260	240	251
15	327	304	313	288	271	280	250	220	236	262	240	246
16	320	289	303	300	280	289	270	250	255	260	220	242
17	315	299	306	315	300	305	265	240	253	245	210	228
18	325	300	309	310	290	299	297	255	272	240	218	227
19	320	299	309	318	286	300	300	275	286	250	220	239
20	322	309	316	317	284	299	290	275	---	242	220	233
21	340	300	316	310	284	296	---	---	---	238	158	205
22	330	301	312	312	268	290	---	---	---	220	160	191
23	340	302	319	300	246	271	---	---	---	230	210	219
24	334	298	315	307	288	297	---	---	---	230	220	227
25	320	293	304	308	286	300	---	---	---	240	222	233
26	316	300	308	314	287	300	---	---	---	240	232	237
27	310	290	301	315	300	306	198	170	---	240	230	233
28	321	280	301	300	263	278	210	200	205	250	230	238
29	312	204	272	261	252	257	215	208	210	249	230	239
30	261	240	248	290	265	279	225	215	219	240	230	237
31	278	251	264	---	---	---	232	220	226	245	230	238
MONTH	340	204	296	318	246	288	320	162	---	378	158	237

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	245	220	230	261	240	250	202	169	188	240	230	235
2	280	230	239	275	255	266	206	199	202	240	230	234
3	280	230	244	276	262	271	225	200	211	234	202	215
4	320	240	261	290	270	277	222	139	187	235	218	225
5	270	240	252	310	280	289	198	159	183	239	227	233
6	265	245	255	295	260	278	210	182	195	239	228	234
7	380	270	317	281	262	272	226	218	215	232	220	226
8	350	300	315	296	272	283	230	209	223	242	229	233
9	380	280	313	285	250	266	199	100	137	240	235	239
10	340	280	303	268	230	244	203	167	186	234	193	211
11	310	270	280	264	245	252	220	202	211	235	210	220
12	298	270	280	268	252	261	226	214	220	230	122	203
13	290	262	277	269	254	261	223	85	162	190	116	155
14	275	258	264	278	250	261	188	124	165	220	194	206
15	268	250	256	298	258	271	203	185	196	230	215	222
16	268	250	260	286	219	265	215	200	206	240	227	232
17	270	257	263	241	210	227	229	203	216	244	234	240
18	280	260	268	269	248	258	230	225	228	245	233	240
19	296	254	269	269	260	266	232	229	231	240	232	237
20	275	240	253	276	250	261	240	228	233	251	240	243
21	260	250	257	266	130	213	242	231	236	250	240	244
22	280	250	258	228	135	184	253	240	246	250	240	245
23	270	245	255	251	228	237	255	234	241	251	213	228
24	278	265	271	278	247	255	252	240	246	248	219	234
25	315	258	278	270	253	261	250	213	229	261	246	252
26	326	258	293	269	255	261	229	220	223	266	253	259
27	300	269	285	273	250	259	229	220	223	267	257	262
28	290	263	271	270	258	264	229	220	226	284	254	271
29	---	---	---	268	228	257	240	224	230	284	273	279
30	---	---	---	260	112	199	240	230	234	305	271	282
31	---	---	---	162	100	130	---	---	---	295	280	288
MONTH	380	220	270	310	100	252	255	85	211	305	116	236

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	299	250	265	---	---	---	304	289	298	319	290	303
2	274	253	267	---	---	---	310	195	281	300	263	280
3	272	248	261	243	220	---	251	198	217	280	134	243
4	286	270	278	230	225	229	270	250	258	238	137	200
5	295	275	286	232	225	229	281	248	265	260	240	250
6	304	285	294	230	212	224	290	280	286	270	260	267
7	309	295	301	240	223	232	292	269	279	265	184	213
8	308	295	302	295	232	255	279	265	272	249	220	236
9	330	299	308	289	270	281	291	275	280	265	248	255
10	348	300	319	312	282	294	282	269	275	280	260	270
11	310	300	311	320	291	304	293	278	285	283	273	278
12	320	300	313	327	308	317	301	277	290	289	273	279
13	333	301	318	320	303	312	300	282	290	290	276	286
14	349	317	331	321	304	313	302	285	295	295	252	275
15	339	310	323	342	310	319	320	300	309	275	269	273
16	320	291	307	322	306	316	335	311	323	310	266	286
17	298	268	285	335	311	322	335	140	277	326	304	314
18	299	284	292	335	319	325	257	150	207	340	329	336
19	310	292	301	320	272	292	289	259	273	337	320	330
20	320	302	311	327	300	308	309	275	288	336	322	330
21	318	154	271	333	320	326	319	300	309	332	297	320
22	244	160	209	345	320	331	319	292	308	300	255	276
23	225	190	211	346	325	337	312	289	301	299	278	285
24	237	200	219	340	262	305	318	225	299	320	292	304
25	239	170	199	290	260	277	300	204	250	340	320	329
26	234	202	219	300	289	296	320	300	311	348	330	341
27	239	200	219	300	290	298	335	320	328	347	326	337
28	250	220	238	308	293	301	340	320	330	344	189	269
29	244	210	227	317	290	306	340	320	331	235	190	213
30	242	240	---	280	220	247	340	270	292	270	240	253
31	---	---	---	300	272	288	300	270	287	---	---	---
MONTH	349	154	275	346	212	292	340	140	287	348	134	281

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.2	6.8	7.0	6.8	---	13.1	9.4	10.7	13.2	12.8	13.0
2	7.2	5.0	5.9	---	---	---	13.2	9.9	11.1	14.0	13.1	13.6
3	7.5	5.0	6.1	---	---	---	12.7	9.6	10.9	13.8	13.5	13.7
4	7.1	4.5	5.5	---	---	---	12.1	8.3	10.2	13.8	13.5	13.7
5	7.4	4.5	5.8	11.4	9.7	---	10.5	7.6	8.7	14.3	13.7	14.0
6	8.6	5.6	6.6	12.2	9.7	10.7	11.4	9.6	10.5	13.8	13.4	13.7
7	9.5	6.0	7.4	12.6	9.6	10.8	12.7	10.8	11.5	13.7	13.0	13.3
8	9.7	6.0	7.3	11.6	8.8	10.1	13.1	11.2	12.0	13.8	13.0	13.4
9	9.9	5.5	7.1	12.0	8.4	10.0	11.9	10.6	11.5	13.7	12.7	13.2
10	9.9	5.3	6.8	13.1	9.9	11.2	12.7	11.2	12.0	13.0	11.6	12.3
11	10.8	5.1	7.2	13.5	10.8	11.9	13.0	11.8	12.3	12.3	11.5	11.9
12	11.9	5.4	7.6	15.7	11.1	13.1	13.2	12.0	12.4	12.5	11.9	12.3
13	11.7	4.8	7.3	13.5	12.1	---	12.8	11.2	12.1	12.6	11.9	12.2
14	11.2	4.6	6.7	15.1	10.7	12.6	11.3	10.6	11.0	13.1	11.9	12.4
15	12.0	4.9	7.1	13.9	9.2	11.2	11.2	10.3	10.6	13.8	12.1	13.0
16	11.3	4.5	6.8	13.4	8.7	10.6	11.0	10.0	10.5	13.4	12.6	13.1
17	11.8	5.3	7.8	14.1	9.5	11.5	11.8	10.6	11.2	13.3	12.8	13.0
18	11.6	6.5	8.3	14.9	11.0	12.5	14.4	11.3	---	14.0	12.9	13.5
19	11.5	6.6	8.2	14.0	8.9	11.3	14.6	13.8	14.1	13.4	12.6	12.9
20	11.9	6.6	8.4	14.3	8.8	10.8	13.6	12.9	---	13.2	12.6	12.9
21	11.4	6.1	7.8	14.3	8.6	10.8	---	---	---	13.5	12.2	13.0
22	11.1	6.0	7.7	13.0	7.9	9.6	---	---	---	13.4	12.8	13.1
23	11.3	5.7	7.8	13.2	7.7	9.7	---	---	---	13.2	12.2	12.8
24	10.8	5.8	7.4	10.3	7.0	8.3	---	---	---	13.2	12.1	12.7
25	10.3	5.1	7.3	11.4	6.3	8.2	---	---	---	13.5	12.8	13.0
26	10.5	5.2	7.0	11.2	6.2	8.2	---	---	---	13.4	12.8	13.1
27	10.5	5.6	7.2	10.1	7.1	8.1	12.3	12.0	---	12.8	11.4	12.1
28	10.7	5.7	7.5	9.1	6.7	7.5	13.0	12.2	12.7	12.8	12.4	---
29	8.0	5.6	6.6	10.7	6.7	8.0	13.3	12.7	13.0	---	---	---
30	7.6	6.0	7.0	12.7	8.4	10.2	13.3	12.6	12.9	---	---	---
31	8.1	7.0	7.5	---	---	---	13.2	12.9	13.1	---	---	---
MONTH	12.0	4.5	7.1	15.7	6.2	10.3	14.6	7.6	---	14.3	11.4	13.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	9.9	11.9	10.6	8.4	9.7	10.3	5.4	7.5
2	---	---	---	14.6	11.6	12.8	8.9	6.9	8.3	11.5	6.3	8.8
3	---	---	---	14.8	11.2	12.7	11.4	6.8	8.6	9.1	6.6	7.6
4	---	---	---	14.6	10.2	11.9	---	---	---	9.3	6.0	7.6
5	---	---	---	12.0	8.2	9.9	---	---	---	10.6	6.0	8.3
6	---	---	---	13.1	9.2	10.8	---	---	---	11.7	6.7	9.3
7	---	---	---	13.2	8.2	10.2	---	---	---	13.0	8.3	10.6
8	---	---	---	11.0	7.1	9.0	---	---	---	11.1	6.1	8.9
9	---	---	---	10.9	8.5	9.8	---	---	---	9.9	5.4	6.9
10	---	---	---	12.0	9.3	10.3	11.6	10.2	---	---	---	---
11	13.4	12.4	---	12.6	9.2	10.4	12.0	9.9	10.9	---	---	---
12	13.8	12.2	13.1	12.1	8.7	10.1	11.6	8.2	10.4	---	---	---
13	12.9	12.0	12.4	12.2	9.0	10.4	8.8	7.1	8.2	---	---	---
14	13.8	12.0	12.9	12.2	9.2	10.4	7.4	5.7	6.8	---	---	---
15	15.4	13.0	14.1	13.4	8.8	10.7	8.1	5.6	6.9	8.2	4.4	---
16	15.9	14.2	15.0	10.8	8.7	9.5	8.8	6.5	7.7	6.6	3.8	5.1
17	15.3	14.0	14.6	12.0	9.2	10.5	10.8	6.6	8.6	7.0	2.8	4.9
18	15.0	13.2	14.0	12.6	9.4	10.8	10.6	7.6	9.3	6.0	2.6	3.9
19	13.9	12.6	13.3	11.6	8.7	9.9	10.6	7.4	9.2	8.6	2.7	5.5
20	13.0	12.0	12.4	11.7	7.4	9.4	11.0	8.0	9.8	9.2	4.4	6.6
21	13.8	12.0	12.7	7.9	6.7	7.3	10.0	6.6	8.7	10.0	5.4	7.5
22	12.1	9.8	11.4	11.9	7.6	9.3	8.3	5.8	---	9.0	4.0	6.5
23	---	---	---	12.1	9.1	10.7	---	---	---	5.3	3.2	4.4
24	---	---	---	11.2	8.6	9.6	---	---	---	8.0	4.1	5.7
25	---	---	---	11.8	8.8	10.4	11.2	8.2	---	7.0	3.6	5.4
26	---	---	---	11.7	9.5	10.4	12.2	7.8	9.7	6.4	3.6	4.9
27	12.0	10.3	---	12.6	9.0	10.9	11.8	7.4	9.5	6.0	4.4	---
28	12.2	9.5	10.7	12.1	8.4	9.9	12.0	6.2	9.1	---	---	---
29	---	---	---	10.1	8.2	9.1	9.8	4.6	7.0	---	---	---
30	---	---	---	10.3	9.0	9.5	10.4	4.4	7.1	7.7	4.5	---
31	---	---	---	10.9	10.2	10.7	---	---	---	6.6	2.7	4.8
MONTH	---	---	---	14.8	6.7	10.3	---	---	---	---	---	---

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.2	1.9	3.0	---	---	---	4.8	1.9	3.3	3.6	1.5	2.4
2	6.4	3.6	5.2	---	---	---	4.2	2.0	3.0	2.6	1.4	2.0
3	7.4	4.4	6.4	6.6	4.2	---	5.0	2.8	4.2	4.9	1.8	3.5
4	7.2	4.2	5.4	6.0	3.2	4.6	3.8	2.5	3.1	6.8	4.6	5.4
5	7.0	3.6	5.1	6.2	3.0	4.6	4.8	2.2	3.1	4.8	3.8	4.5
6	6.8	3.2	4.8	6.8	4.2	5.3	5.0	2.5	3.8	4.0	3.2	3.6
7	6.0	2.6	4.3	6.9	3.3	5.0	4.9	2.4	3.5	3.8	2.6	3.2
8	4.8	2.4	3.5	7.2	2.7	4.6	4.6	3.0	3.8	2.9	2.4	2.6
9	6.4	2.4	4.4	5.2	2.5	---	4.9	2.6	3.4	4.7	3.0	3.8
10	5.7	2.2	3.6	---	---	---	4.9	2.6	3.6	6.0	3.4	4.6
11	6.4	2.6	4.5	7.8	3.5	---	4.7	2.4	3.3	4.8	3.7	4.4
12	5.6	2.4	3.7	9.0	3.5	5.6	4.4	2.1	3.1	4.2	2.8	3.6
13	5.5	2.0	3.4	9.0	3.4	5.4	3.6	1.6	2.6	3.4	1.8	2.7
14	5.1	1.7	2.8	8.6	2.6	5.0	4.5	1.4	2.5	3.0	1.6	2.3
15	4.3	1.2	2.5	7.8	1.7	3.6	5.0	1.4	2.6	2.8	1.7	2.3
16	3.1	1.2	1.9	6.2	1.6	3.5	5.3	1.2	2.8	5.2	1.6	3.0
17	6.4	2.0	4.1	4.8	1.6	---	4.3	1.1	2.5	5.8	3.6	4.4
18	6.2	2.7	4.2	---	---	---	3.3	1.5	2.6	8.4	5.6	---
19	5.8	2.7	4.1	---	---	---	3.2	1.3	2.4	8.6	4.8	6.5
20	6.1	2.8	4.2	---	---	---	6.2	2.2	4.0	8.0	4.0	5.8
21	4.8	2.2	3.6	---	---	---	6.9	3.2	4.9	7.0	4.0	5.1
22	4.6	2.8	3.9	---	---	---	5.6	3.2	4.2	7.6	3.9	5.6
23	3.7	1.4	2.5	---	---	---	7.0	3.0	4.6	9.8	4.6	7.2
24	---	---	---	4.8	4.3	---	3.8	3.2	---	9.0	6.1	7.2
25	---	---	---	5.8	2.8	4.5	---	---	---	7.8	4.8	6.2
26	6.4	5.4	---	5.6	2.4	3.9	---	---	---	8.2	4.2	5.6
27	5.8	4.4	5.2	5.0	2.0	3.5	---	---	---	8.2	3.9	5.7
28	5.2	4.5	4.8	4.0	1.4	2.4	---	---	---	5.2	3.8	4.5
29	4.8	2.8	4.2	5.0	1.3	2.8	4.8	2.0	---	5.3	4.0	4.8
30	3.0	2.7	---	4.5	2.4	3.6	3.8	2.0	2.7	6.2	4.0	4.9
31	---	---	---	3.8	2.3	2.8	4.1	2.1	3.0	---	---	---
MONTH	7.4	1.2	4.1	---	---	---	7.0	1.1	3.3	9.8	1.4	4.4

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	6.6	6.9	6.5	6.2	---	7.5	6.9	7.1	7.1	6.9	7.0
2	7.2	6.7	6.9	---	---	---	7.5	7.0	7.2	7.7	7.0	7.3
3	7.8	6.8	7.2	---	---	---	7.5	6.9	7.2	7.6	7.0	7.3
4	7.5	6.5	6.9	---	---	---	7.7	7.0	7.3	7.3	7.2	7.2
5	8.0	6.1	7.0	---	---	---	7.3	6.8	7.1	7.3	7.2	7.2
6	7.1	6.1	6.4	---	---	---	7.5	6.7	7.0	7.4	7.2	7.3
7	6.9	5.9	6.3	---	---	---	7.1	6.8	6.9	7.6	7.1	7.4
8	7.3	5.8	6.4	---	---	---	7.2	6.9	7.0	7.4	7.3	7.3
9	8.4	6.1	7.2	---	---	---	7.0	6.6	6.9	7.3	7.2	7.3
10	8.3	7.2	7.7	---	---	---	7.0	6.6	6.8	7.2	7.1	7.2
11	8.2	6.9	7.5	---	---	---	7.2	6.9	7.1	7.4	7.1	7.2
12	8.4	7.0	7.6	7.2	6.4	---	7.2	7.1	7.1	7.3	7.1	7.2
13	8.6	7.1	7.6	6.8	6.6	---	7.2	7.0	7.1	7.4	7.1	7.3
14	8.5	7.4	7.7	7.4	6.4	6.8	7.0	6.8	6.9	7.3	7.3	---
15	8.6	7.1	7.6	7.3	6.4	6.8	7.2	6.9	7.1	7.4	7.2	---
16	8.1	6.9	7.4	7.0	6.4	6.7	7.2	7.0	7.1	7.4	7.2	7.3
17	7.7	6.6	7.1	7.0	6.3	6.6	7.2	7.0	7.1	7.3	7.1	7.2
18	7.5	6.7	7.0	7.1	6.3	6.6	7.3	6.9	7.1	7.3	7.1	7.2
19	8.5	7.0	7.7	8.0	6.3	6.9	7.3	7.1	7.2	7.3	7.1	7.2
20	8.0	6.9	7.3	7.8	6.8	7.2	7.3	7.1	---	7.3	7.0	7.2
21	7.7	6.6	7.0	7.9	6.9	7.3	---	---	---	7.6	6.6	7.0
22	7.5	6.5	6.9	8.3	7.1	7.4	---	---	---	7.2	6.8	7.1
23	6.8	5.7	6.4	8.1	6.9	7.4	---	---	---	7.3	7.2	7.2
24	6.6	5.4	5.9	7.4	7.0	7.2	---	---	---	8.0	7.1	7.6
25	6.6	5.5	5.9	8.1	7.0	7.4	---	---	---	8.0	7.5	7.8
26	6.4	5.4	5.9	7.5	7.0	7.3	---	---	---	7.6	7.4	7.5
27	7.0	5.5	6.8	7.5	7.0	7.2	7.2	6.6	---	7.8	7.5	7.6
28	7.0	5.6	6.3	7.7	7.2	7.4	7.1	6.8	7.0	7.5	7.0	7.3
29	8.3	6.2	6.9	7.6	7.1	7.3	7.2	6.9	7.0	6.9	6.8	---
30	7.0	6.5	6.7	7.5	6.9	7.1	7.1	7.0	7.1	6.9	6.6	6.8
31	6.6	6.4	6.5	---	---	---	7.2	7.0	7.1	6.8	6.5	6.6
MONTH	8.6	5.4	6.9	---	---	---	7.7	6.6	---	8.0	6.5	7.2

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.3	6.6	6.9	6.2	---	---	---	---	7.8	6.4	6.9
2	6.7	6.6	6.7	7.9	6.8	---	---	---	---	8.0	6.5	7.1
3	6.7	6.6	6.7	7.9	6.5	7.1	6.8	6.5	---	7.7	6.7	7.2
4	7.0	6.7	---	7.6	6.4	7.0	6.6	6.2	6.4	8.0	6.7	7.4
5	---	---	---	7.3	6.2	6.6	6.5	6.3	6.4	8.2	6.7	7.4
6	---	---	---	6.6	6.4	---	6.8	6.5	6.6	7.8	7.0	7.4
7	---	---	---	---	---	---	7.3	6.6	7.0	9.0	7.3	8.1
8	---	---	---	---	---	---	7.4	7.1	7.3	8.2	7.6	---
9	---	---	---	---	---	---	7.2	6.9	---	---	---	---
10	---	---	---	---	---	---	7.1	6.9	7.0	---	---	---
11	7.2	7.0	---	---	---	---	7.3	6.8	7.1	---	---	---
12	7.7	6.8	7.2	---	---	---	7.4	6.9	7.2	---	---	---
13	7.8	7.0	7.3	---	---	---	7.0	6.5	6.8	---	---	---
14	7.7	7.0	7.3	---	---	---	7.0	6.6	6.9	---	---	---
15	7.4	7.0	7.2	---	---	---	7.1	6.8	7.0	7.8	7.0	---
16	7.6	7.0	7.2	---	---	---	7.3	6.9	7.1	7.2	6.7	7.0
17	8.1	7.1	7.5	---	---	---	7.4	6.9	7.1	7.0	6.6	6.8
18	8.0	7.2	7.6	---	---	---	7.6	6.9	7.2	6.9	6.4	6.6
19	7.9	7.2	7.5	---	---	---	7.9	6.9	7.3	6.9	6.4	6.6
20	---	---	---	---	---	---	8.2	7.1	7.8	7.4	6.5	6.9
21	7.5	6.8	---	---	---	---	7.9	7.1	7.6	7.5	6.5	7.0
22	7.4	7.0	7.2	---	---	---	7.9	6.8	7.3	7.0	6.5	6.8
23	7.6	6.9	7.2	---	---	---	7.5	6.8	7.1	6.7	6.4	6.6
24	7.4	6.8	7.1	---	---	---	8.0	7.1	7.4	7.2	6.2	6.7
25	7.3	6.9	7.1	---	---	---	8.1	6.6	7.5	6.8	5.9	6.3
26	7.2	6.9	7.1	---	---	---	7.8	6.6	7.2	6.6	6.0	6.3
27	7.5	6.3	6.9	---	---	---	7.7	6.6	7.1	7.1	6.1	6.7
28	6.9	6.1	6.5	---	---	---	7.7	6.5	7.1	7.2	5.8	6.6
29	---	---	---	---	---	---	7.6	6.3	6.9	6.6	5.9	6.2
30	---	---	---	---	---	---	7.8	6.3	6.9	7.0	6.1	6.5
31	---	---	---	---	---	---	---	---	---	7.3	6.5	6.8
MONTH	---	---	---	---	---	---	8.2	6.2	7.1	9.0	5.8	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.3	6.6	---	---	---	---	---	---	---	---	---
2	7.5	6.5	7.1	---	---	---	---	---	---	---	---	---
3	8.3	6.5	7.5	---	---	---	---	---	---	9.3	6.7	---
4	7.4	6.4	6.9	---	---	---	---	---	---	9.6	7.1	8.4
5	7.2	6.5	6.8	---	---	---	---	---	---	---	---	---
6	7.5	6.5	6.9	---	---	---	---	---	---	---	---	---
7	7.7	6.6	7.2	---	---	---	---	---	---	---	---	---
8	7.7	6.8	7.4	---	---	---	---	---	---	---	---	---
9	7.5	6.5	7.1	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	8.4	6.2	---
11	---	---	---	---	---	---	---	---	---	7.9	6.2	7.0
12	---	---	---	---	---	---	---	---	---	7.5	6.4	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	7.6	7.2	---	---	---	---	---	---	---	---	---	---
20	7.5	6.8	7.2	---	---	---	---	---	---	---	---	---
21	7.5	6.8	7.1	---	---	---	---	---	---	---	---	---
22	7.7	6.8	7.2	---	---	---	---	---	---	---	---	---
23	7.7	6.8	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	8.8	6.1	---	---	---	---
30	---	---	---	---	---	---	7.8	6.4	7.0	---	---	---
31	---	---	---	---	---	---	8.8	7.2	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	16.0	18.0	13.5	13.0	---	10.0	8.0	9.0	7.0	6.0	6.5
2	19.5	18.0	18.5	---	---	---	8.5	6.0	7.0	6.0	4.0	4.5
3	20.5	18.5	19.5	---	---	---	8.5	5.5	7.0	4.0	3.5	4.0
4	21.5	18.5	20.0	---	---	---	9.5	6.0	8.0	4.5	3.0	4.0
5	22.0	19.0	20.0	10.5	9.5	---	12.0	9.5	11.0	3.5	2.0	3.0
6	20.0	16.0	18.0	9.5	8.0	8.5	12.0	9.5	11.0	4.0	3.5	3.5
7	18.0	15.0	16.5	9.0	6.5	7.5	9.0	7.0	8.5	4.5	3.0	4.0
8	19.0	15.5	17.5	8.5	5.5	7.0	7.0	6.5	7.0	3.5	2.0	3.0
9	19.5	16.5	18.0	9.0	7.0	8.0	8.0	7.0	7.0	5.0	0.5	3.0
10	20.5	18.5	19.5	8.5	5.5	6.5	8.0	6.5	7.0	5.0	4.0	4.5
11	19.5	17.0	18.5	7.0	4.0	5.5	7.0	5.5	6.5	5.5	4.5	5.0
12	19.0	16.0	17.5	11.0	4.5	7.5	6.0	4.5	5.0	4.5	4.0	4.0
13	19.5	16.0	17.5	10.0	10.0	---	6.5	4.0	5.0	4.0	2.0	3.0
14	20.0	17.0	18.5	13.5	9.5	11.0	7.0	6.5	6.5	4.5	2.0	3.5
15	19.5	15.5	17.0	15.0	11.0	13.0	6.5	5.5	6.0	4.5	3.0	4.0
16	18.5	16.0	17.0	14.5	10.0	12.5	5.5	3.0	5.0	5.5	3.5	4.5
17	16.0	14.0	15.0	10.0	8.0	9.0	3.0	1.5	2.0	5.0	4.5	5.0
18	14.5	12.0	13.5	9.0	6.0	7.5	4.0	1.5	2.5	4.0	3.0	3.5
19	15.0	11.5	13.5	11.0	8.5	9.5	4.0	1.5	2.5	5.5	4.0	4.5
20	16.0	13.0	14.0	11.0	8.0	9.0	5.5	3.5	---	5.0	4.5	4.5
21	16.0	13.5	14.5	11.0	8.5	9.5	---	---	---	5.0	4.0	4.5
22	16.0	12.0	14.0	14.0	10.5	12.0	---	---	---	6.0	4.0	5.0
23	15.5	12.0	14.0	12.0	9.0	10.5	---	---	---	8.0	4.5	6.0
24	16.0	12.0	14.0	12.0	10.5	11.5	---	---	---	7.0	6.0	6.5
25	15.5	12.0	13.5	14.5	11.5	13.0	---	---	---	7.0	5.5	6.0
26	17.0	13.5	15.0	14.0	12.0	12.5	---	---	---	6.0	4.5	5.0
27	16.5	14.0	15.0	14.0	12.0	13.0	10.0	9.5	---	10.0	6.0	8.0
28	15.0	13.0	14.5	15.5	14.0	14.5	9.5	7.0	8.5	8.5	6.5	7.0
29	15.0	13.5	14.5	14.0	10.0	11.5	8.0	6.5	7.0	8.0	7.0	7.0
30	14.5	12.0	13.5	10.5	8.5	9.5	8.0	6.0	7.0	8.5	6.0	7.0
31	13.0	11.5	12.0	---	---	---	6.5	6.0	6.0	8.0	5.0	6.5
MONTH	22.0	11.5	16.0	15.5	4.0	10.0	12.0	1.5	---	10.0	0.5	5.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.0	5.5	9.0	6.0	7.5	9.0	5.5	7.0	22.0	18.5	20.0
2	5.5	5.0	5.5	8.0	6.0	7.0	10.5	8.0	9.0	18.5	15.0	17.0
3	4.5	4.0	4.0	10.0	7.0	8.5	14.0	8.0	11.5	15.5	14.5	15.0
4	5.0	3.5	4.0	13.0	9.0	10.5	14.5	13.5	14.0	18.5	14.0	16.0
5	4.0	1.5	2.5	13.0	11.5	12.0	14.5	12.0	14.0	15.5	13.5	14.5
6	4.0	1.5	3.0	11.5	9.5	10.5	12.0	10.5	11.5	15.5	13.5	14.5
7	6.0	4.0	4.5	14.0	9.5	11.5	13.5	8.5	11.0	15.5	12.0	14.0
8	4.5	3.0	3.5	12.0	9.5	11.0	12.0	10.0	11.0	16.5	11.5	14.0
9	5.0	1.5	3.0	9.5	8.0	8.5	9.5	7.0	8.0	15.5	14.5	15.0
10	5.0	1.5	3.0	10.5	8.0	9.0	11.5	6.5	8.5	18.0	15.0	16.0
11	5.0	3.0	3.5	9.5	6.0	8.0	13.5	8.0	11.0	19.0	14.5	17.0
12	6.0	3.0	4.0	9.5	7.0	8.5	15.0	10.0	12.5	18.0	15.5	16.5
13	6.5	3.5	5.0	8.0	4.0	5.5	14.0	12.0	13.5	16.5	14.5	15.5
14	7.0	5.5	6.0	8.5	3.5	5.5	15.5	13.5	14.5	19.5	13.5	16.5
15	6.0	4.0	5.0	9.0	4.0	6.5	15.5	13.5	14.5	22.0	17.0	19.5
16	5.0	3.0	4.0	9.5	8.0	8.5	16.0	11.5	14.0	23.0	19.0	21.0
17	6.5	4.0	5.0	8.0	5.5	6.5	16.5	11.5	14.5	24.0	19.5	22.0
18	6.5	3.5	5.0	9.0	4.0	6.5	18.0	13.0	15.0	24.0	20.5	22.0
19	6.5	5.0	5.5	10.0	6.5	8.0	15.5	13.5	14.5	21.0	19.0	20.0
20	8.0	6.5	7.0	11.5	8.0	9.5	17.0	11.5	14.5	21.5	17.0	19.0
21	8.5	5.0	6.5	8.5	6.0	8.0	18.5	13.5	16.0	21.5	16.5	19.0
22	11.5	7.0	9.0	9.0	4.5	7.0	19.5	16.0	18.0	22.0	18.0	20.0
23	10.5	7.0	9.0	11.0	5.5	8.0	19.5	16.5	18.0	21.0	19.5	20.5
24	8.5	5.0	6.5	12.0	9.0	10.5	16.5	14.5	15.5	21.5	18.0	19.5
25	7.0	4.5	5.5	9.0	5.5	7.0	16.0	14.0	14.5	21.0	18.5	19.5
26	6.5	3.0	4.5	9.5	5.0	7.0	17.0	12.0	14.5	19.0	16.5	18.0
27	5.5	3.5	4.5	10.0	6.0	8.0	19.0	14.0	16.0	17.0	16.0	16.5
28	7.0	3.0	5.0	10.5	8.5	9.5	19.0	14.0	16.5	19.0	15.0	17.0
29	---	---	---	9.0	5.0	6.5	20.5	16.5	18.5	18.5	16.5	17.5
30	---	---	---	5.5	4.5	5.0	22.0	18.5	20.0	21.0	18.0	19.0
31	---	---	---	6.0	4.0	5.0	---	---	---	20.5	18.5	19.5
MONTH	11.5	1.5	5.0	14.0	3.5	8.0	22.0	5.5	13.5	24.0	11.5	17.5

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	---	---	---	26.5	21.5	24.0	27.0	23.5	25.0
2	19.5	17.0	18.5	---	---	---	26.0	22.0	23.5	25.0	23.0	24.0
3	21.5	16.0	19.0	25.5	23.0	---	25.0	22.0	23.5	24.0	21.5	23.0
4	23.0	18.5	20.5	28.5	23.5	25.5	25.5	23.5	24.5	21.5	20.0	21.0
5	24.0	19.0	21.0	25.5	24.0	24.5	26.0	23.0	24.0	21.5	18.5	20.0
6	24.0	18.5	21.0	25.5	23.0	24.0	24.5	21.0	23.0	20.5	19.5	20.0
7	21.0	19.5	20.0	28.0	22.0	24.5	23.5	21.5	22.5	19.5	18.0	18.5
8	21.5	19.0	20.0	28.5	23.0	25.5	24.5	21.5	23.0	21.5	19.5	20.5
9	24.5	20.0	22.0	29.5	24.0	26.5	23.5	20.5	22.0	23.0	20.5	21.5
10	27.0	21.5	24.0	29.5	24.0	26.0	24.5	21.5	22.5	24.0	20.5	22.0
11	26.5	23.0	24.5	27.0	24.0	25.0	25.0	20.0	22.0	23.5	21.0	22.5
12	24.0	20.5	22.0	27.0	21.0	24.0	25.5	19.5	22.0	24.5	21.0	23.0
13	24.0	18.5	21.0	27.0	21.0	23.5	24.5	20.5	22.5	25.5	22.0	24.0
14	23.5	19.0	21.0	28.5	21.5	25.0	26.5	21.5	24.0	24.0	21.0	23.0
15	24.5	19.5	21.5	29.0	24.5	26.5	27.0	21.5	24.0	21.5	18.5	20.0
16	23.0	21.5	22.0	28.5	24.0	26.0	25.5	21.0	23.5	22.0	18.5	20.0
17	24.5	20.0	22.0	28.0	21.5	24.5	26.0	21.5	23.5	22.0	19.5	20.5
18	24.5	19.5	22.0	26.0	22.0	24.0	25.0	21.0	23.0	23.0	19.5	21.0
19	24.5	19.0	21.5	27.0	23.5	25.0	25.0	22.0	23.5	23.0	19.5	21.0
20	25.0	20.5	22.5	26.5	21.5	23.5	26.5	21.5	24.0	24.0	21.0	22.0
21	25.0	21.5	23.0	25.5	20.0	22.5	26.0	22.0	24.0	24.0	21.5	22.5
22	25.0	21.0	23.0	25.0	19.5	22.0	25.0	23.5	24.0	21.5	18.5	20.0
23	23.5	19.5	21.0	23.5	20.0	22.0	26.5	24.0	25.0	19.5	16.0	18.0
24	21.0	18.5	20.0	21.5	20.0	20.5	25.0	24.0	---	18.5	14.5	16.0
25	21.0	19.5	20.5	23.5	19.5	21.0	---	---	---	18.5	15.0	16.5
26	20.5	19.5	20.0	23.0	21.0	22.0	---	---	---	20.0	16.5	18.0
27	21.0	18.5	20.0	25.5	22.0	23.5	---	---	---	21.0	16.5	18.5
28	20.5	18.5	19.0	26.0	23.0	24.0	---	---	---	20.0	18.5	19.0
29	22.0	18.5	20.0	26.5	23.0	24.5	28.5	24.5	---	21.0	19.5	20.0
30	20.5	19.5	---	25.5	22.0	23.5	26.5	24.5	25.5	19.5	18.0	19.0
31	---	---	---	26.5	21.5	24.0	26.5	23.5	24.5	---	---	---
MONTH	27.0	16.0	21.0	29.5	19.5	24.0	28.5	19.5	23.5	27.0	14.5	20.5

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.

LOCATION.--Lat 39°52'09", long 75°35'35", Delaware County, at gaging station located on left bank 27 ft (8 m) upstream from Pennsylvania Railroad Bridge at Chadds Ford, and 1,200 ft (366 m) downstream from highway bridge on U.S. Highway 1. Sediment samples collected at Pennsylvania Railroad Bridge.

DRAINAGE AREA.--287 mi^2 (743 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1974.
Water temperatures: October 1964 to September 1974.
Sediment records: July 1963 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 326 micromhos Feb. 8; minimum, 127 micromhos Dec. 21.
Dissolved oxygen: Maximum, 15.3 mg/l Nov. 21; minimum, 5.4 mg/l Sept. 2.
pH: Maximum, 9.1 May 6, 7; minimum, 6.4 Jan. 29, 30, July 1.
Water temperatures: Maximum, 27.0°C July 10; minimum, freezing point Dec. 17.

Period of record:
Specific conductance (1965-74): Maximum, 445 micromhos Oct. 25, 1971; minimum, 71 micromhos June 23, 1972.
Dissolved oxygen (1971-74): Maximum, 16.5 mg/l Jan. 13, 1973; minimum, 7.7 May 31, 1972.
pH (1965-66, 1972-74): Maximum, 9.1 May 6, 7, 1974; minimum, 6.4 Jan. 29, 30, July 1, 1974.
Water temperatures: Maximum, 29.0°C Aug. 9,17, 1965; minimum daily, freezing point on many days during winter months.

REMARKS.--Sediment data for this station on page 384. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the district office at Harrisburg. Sediment data from 01481500 Brandywine Creek at Wilmington, Del., are used in computation of sediment records.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)
OCT.										
01...	1100	179	220	7.2	17.5	9.6	210	11	--	14
09...	1100	157	235	7.1	16.0	9.0	190	--	--	--
10...	0800	164	233	7.5	--	--	--	--	--	--
15...	1300	143	250	7.4	16.0	11.2	240	11	--	15
23...	1130	103	265	7.2	12.0	13.2	E110	.0	--	17
29...	1200	194	260	7.4	12.5	11.4	E510	3.0	--	--
NOV.										
05...	1400	179	260	7.0	9.5	11.4	190	4.0	--	--
11...	1430	150	260	7.0	6.0	13.2	310	2.5	--	--
19...	1300	140	270	7.3	7.5	12.4	150	5.0	--	--
26...	1400	143	260	7.0	11.0	11.3	390	7.5	--	--
DEC.										
03...	1400	143	260	7.6	5.0	13.8	550	4.0	--	--
10...	1130	555	185	7.2	6.5	11.8	E1900	10	--	--
18...	1045	230	240	7.4	1.0	14.2	360	4.0	--	--
26...	1030	415	240	7.4	5.0	12.7	800	5.0	--	--
JAN.										
07...	0930	470	220	7.0	3.5	13.2	630	.5	--	--
15...	1330	470	245	7.0	3.5	13.5	170	--	.5	--
21...	1030	465	240	7.4	5.0	13.0	200	2.0	--	--
28...	1045	540	220	7.6	7.5	11.8	600	2.5	--	--
FEB.										
04...	1115	440	255	7.1	3.0	13.6	E36000	8.0	--	--
12...	1330	366	--	--	4.5	--	--	--	2.0	--
19...	1000	350	240	7.3	4.0	12.4	--	--	--	--
26...	1100	376	250	7.3	2.0	13.7	--	--	2.5	--
MAR.										
04...	1600	376	220	8.2	11.0	12.4	E44	--	3.5	--
11...	1500	360	220	7.6	8.5	12.2	270	--	4.0	--
18...	1145	385	210	7.1	5.0	13.0	E700	--	16	--
25...	1330	390	225	7.1	6.5	12.2	E7800	--	6.0	--
APR.										
01...	1300	820	190	7.3	6.5	11.8	2100	--	10	--
08...	1400	540	210	7.5	10.5	10.8	165	--	1.0	--
16...	1225	685	195	6.8	11.5	10.3	--	--	4.5	--
23...	1230	645	210	7.4	15.5	8.7	130	--	7.0	--
29...	1135	460	210	7.3	16.0	9.3	230	--	7.0	--
MAY										
06...	1700	390	215	8.3	14.0	11.4	1150	--	7.5	--
13...	1540	1056	150	6.5	14.0	9.2	E21000	--	--	--
28...	1400	342	230	7.5	15.5	9.1	E130	--	--	--
JUNE										
03...	1030	395	220	6.8	16.0	8.4	E1800	--	--	--
10...	1130	290	250	7.5	22.0	7.6	E1600	2.7	3.5	--
17...	1600	304	250	7.8	23.0	8.2	1300	2.4	2.4	--
26...	1045	445	200	7.0	16.5	8.4	5300	--	--	--
JULY										
01...	1400	366	240	6.4	22.0	7.6	--	3.3	2.4	--
08...	1310	264	220	7.0	24.6	8.0	560	--	--	--

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
JULY									
15...	1500	214	245	8.1	26.0	8.4	--	--	--
23...	1630	181	250	7.9	22.0	8.4	--	--	3.6
29...	1315	189	240	7.7	24.5	8.5	--	3.7	--
AUG.									
05...	1130	309	230	7.3	23.5	6.6	2300	3.9	5.2
12...	1440	185	270	7.6	22.5	8.8	E3700	3.1	2.3
20...	1140	177	240	7.3	22.5	7.0	780	5.0	--
26...	1525	189	225	6.8	23.0	7.3	400	--	2.7
SEP.									
04...	1125	100	165	6.8	20.0	7.2	--	--	--
09...	1250	254	220	7.0	20.5	7.9	5800	7.8	5.6
17...	1115	160	260	7.0	18.0	8.9	E2800	4.4	3.5
23...	1130	164	255	6.7	17.0	9.0	E15000	3.1	--
30...	1250	300	235	7.2	16.5	8.3	--	--	--

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
10...	0800	11	370	60	19	8.2	13	3.2	69	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT.										
10...	57	22	16	.3	2.4	.01	2.4	127	81	25

DATE	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
10...	3.5	<1	0	0	0	0	2	7	20

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	240	228	231	227	211	220	252	236	242	231	227	229
2	234	218	227	229	227	228	254	244	249	230	225	227
3	227	215	222	232	227	230	257	247	252	232	220	226
4	230	220	223	235	229	232	259	253	256	246	216	227
5	238	228	233	261	231	244	254	194	234	262	228	242
6	239	230	235	262	254	258	198	186	---	235	229	233
7	242	235	239	265	254	258	231	200	214	231	225	229
8	242	234	237	262	256	259	244	232	238	227	223	225
9	240	233	235	---	---	---	239	186	217	224	199	216
10	238	230	---	---	---	---	192	173	180	289	220	233
11	236	229	---	---	---	---	217	193	207	316	271	296
12	237	228	233	257	254	---	235	216	225	272	219	230
13	244	233	238	262	252	258	235	226	231	230	221	226
14	241	233	237	257	252	255	225	199	215	233	227	230
15	247	237	241	259	252	255	213	204	207	234	228	231
16	248	240	244	259	251	254	228	199	221	241	228	233
17	246	239	243	256	250	254	238	222	228	235	221	230
18	244	241	243	260	251	256	256	225	242	228	217	223
19	247	243	244	263	256	260	261	239	255	235	221	227
20	249	240	246	262	255	259	287	254	269	257	230	240
21	251	242	248	259	251	255	263	127	167	230	172	209
22	251	248	250	258	251	256	198	141	173	210	174	191
23	258	242	249	261	252	257	226	198	211	231	199	222
24	248	239	243	251	240	246	214	209	212	235	225	229
25	249	243	246	257	242	252	215	208	210	241	212	228
26	245	240	---	256	251	253	232	147	206	216	213	214
27	252	247	---	254	251	253	178	139	156	218	214	216
28	248	243	---	260	244	254	213	180	201	217	212	213
29	245	171	---	249	240	245	227	214	222	217	213	215
30	196	170	184	240	231	234	232	224	228	221	213	217
31	211	195	203	---	---	---	234	227	230	219	199	215
MONTH	258	170	235	265	211	249	287	127	220	316	172	227

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	233	199	222	270	256	263	187	171	179	218	210	214
2	229	224	226	261	248	253	200	188	197	217	203	207
3	252	226	235	253	249	251	203	197	200	216	206	212
4	251	229	241	256	217	242	206	185	200	220	212	216
5	276	230	255	228	219	224	189	172	181	221	215	218
6	258	232	241	232	225	228	194	184	189	220	216	219
7	249	230	236	228	221	225	208	194	203	224	219	222
8	326	251	301	229	223	226	208	203	206	227	209	222
9	257	243	248	230	221	227	202	146	164	206	197	202
10	265	243	---	224	218	222	180	162	174	230	207	215
11	---	---	---	220	211	215	190	180	187	212	202	209
12	---	---	---	222	213	219	199	190	197	221	170	211
13	---	---	---	230	221	226	199	131	184	164	128	147
14	---	---	---	228	224	226	168	130	148	203	166	188
15	229	226	---	232	227	229	180	170	176	214	201	208
16	230	223	227	234	214	227	199	180	190	224	213	217
17	230	221	227	219	209	215	201	195	198	228	221	224
18	229	219	224	219	203	210	200	194	198	231	224	227
19	230	221	225	227	210	224	202	197	199	228	221	225
20	259	227	242	232	222	227	202	197	199	231	223	226
21	240	224	229	222	197	214	203	197	200	229	224	227
22	230	221	226	195	169	180	201	196	199	233	223	228
23	239	228	233	208	188	201	207	199	204	231	214	225
24	237	229	232	211	209	210	202	198	200	220	214	218
25	237	227	232	217	211	215	206	201	204	229	220	224
26	281	229	242	217	212	215	208	203	205	235	230	232
27	288	262	272	222	217	219	206	200	204	232	225	229
28	280	261	270	219	215	217	212	204	207	231	225	229
29	---	---	---	226	214	220	219	206	213	235	228	231
30	---	---	---	213	166	200	222	215	218	235	230	232
31	---	---	---	172	150	161	---	---	---	235	230	232
MONTH	326	199	240	270	150	220	222	130	194	235	128	217

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	238	224	231	235	231	---	263	236	251	257	246	253
2	230	210	215	239	224	231	261	244	256	271	253	258
3	224	220	---	232	223	228	245	215	225	270	238	255
4	224	220	---	235	227	230	223	200	217	246	148	174
5	230	221	226	241	160	214	245	215	233	230	184	209
6	228	223	226	230	200	222	260	237	247	247	218	238
7	231	223	227	230	220	227	264	257	261	237	201	221
8	240	227	234	239	216	226	271	256	263	224	199	210
9	235	227	231	233	215	225	276	263	268	245	224	237
10	247	232	240	238	226	231	291	270	279	261	244	252
11	250	238	245	234	224	228	282	264	270	263	253	258
12	245	238	242	241	225	232	286	273	279	280	258	268
13	246	239	242	240	235	238	287	276	281	276	258	266
14	244	235	239	237	230	233	286	279	281	267	254	260
15	239	234	237	234	230	---	285	273	277	262	252	257
16	246	233	240	---	---	---	286	276	280	264	245	252
17	248	225	238	---	---	---	288	267	281	264	259	261
18	241	232	237	244	234	---	255	172	186	269	256	261
19	245	233	240	251	237	243	235	191	211	277	265	269
20	251	243	246	241	231	236	260	236	250	281	264	272
21	261	198	240	239	228	233	264	255	260	274	260	267
22	236	175	192	242	232	235	278	266	271	266	259	262
23	187	164	176	249	235	241	275	270	271	258	246	252
24	203	188	199	251	238	245	275	265	269	253	243	247
25	219	192	206	245	235	241	243	150	204	263	252	255
26	209	188	198	238	225	231	235	214	229	278	264	270
27	216	209	213	244	231	236	260	226	244	281	264	273
28	220	209	214	244	234	239	266	260	262	275	191	262
29	218	213	---	254	233	241	273	255	262	195	165	176
30	---	---	---	248	226	236	290	270	275	236	191	215
31	---	---	---	233	216	223	289	258	272	---	---	---
MONTH	261	164	226	254	160	233	291	150	255	281	148	247

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	8.7	9.4	12.1	10.9	11.8	---	---	---	---	---	---
2	9.7	8.5	9.1	12.4	11.6	12.0	---	---	---	---	---	---
3	9.1	8.2	8.6	11.8	11.3	11.6	13.7	12.9	---	---	---	---
4	9.0	7.8	8.4	12.3	11.6	12.0	13.6	12.3	13.0	---	---	---
5	8.8	7.6	8.2	12.9	12.1	---	12.2	9.2	10.8	---	---	---
6	9.3	8.0	8.7	---	---	---	10.1	9.2	9.6	---	---	---
7	9.6	8.5	9.1	---	---	---	11.2	10.2	10.9	13.2	12.6	---
8	9.5	8.2	9.0	---	---	---	11.7	11.2	11.6	13.2	11.9	12.6
9	11.6	8.2	9.9	---	---	---	11.8	11.2	11.6	---	---	---
10	11.5	10.8	---	---	---	---	11.7	11.0	11.3	---	---	---
11	---	---	---	---	---	---	11.5	10.8	11.2	---	---	---
12	---	---	---	13.4	12.8	---	12.3	11.4	11.9	---	---	---
13	---	---	---	13.3	12.1	12.8	12.4	11.8	12.1	---	---	---
14	---	---	---	12.0	10.9	11.5	11.6	10.0	10.7	---	---	---
15	11.2	10.3	---	11.1	9.7	10.4	10.8	10.3	10.6	13.7	13.1	---
16	11.7	9.7	10.7	10.1	9.0	9.6	11.1	10.6	10.8	13.1	12.0	12.6
17	12.6	10.3	11.5	11.7	9.8	10.8	12.4	11.2	11.9	12.0	11.7	11.8
18	13.1	11.4	12.3	12.8	11.1	12.1	12.3	12.2	---	13.4	11.9	12.7
19	13.9	12.0	13.0	13.2	11.8	12.5	---	---	---	13.5	12.4	13.0
20	13.5	12.3	12.9	15.0	12.9	13.9	---	---	---	12.4	12.2	12.3
21	13.5	11.4	12.7	15.3	13.7	14.4	---	---	---	12.4	12.0	---
22	13.6	11.9	12.7	14.6	13.0	13.6	---	---	---	---	---	---
23	13.7	12.2	12.9	14.3	12.1	13.1	---	---	---	---	---	---
24	13.5	12.1	12.8	13.7	12.2	12.7	---	---	---	---	---	---
25	13.8	12.1	12.9	13.1	11.5	12.1	---	---	---	---	---	---
26	13.4	11.9	12.6	11.5	10.9	11.2	---	---	---	---	---	---
27	13.3	10.2	12.0	11.4	10.7	11.0	---	---	---	---	---	---
28	13.6	11.4	12.4	10.6	9.7	10.2	---	---	---	---	---	---
29	11.8	9.4	11.2	9.9	9.7	---	---	---	---	---	---	---
30	11.6	10.6	11.2	---	---	---	---	---	---	---	---	---
31	12.3	11.6	12.1	---	---	---	---	---	---	---	---	---
MONTH	13.9	7.6	11.1	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	12.0	11.0	---	10.0	8.7	9.3
2	---	---	---	---	---	---	11.2	10.4	10.9	11.0	8.9	9.8
3	---	---	---	---	---	---	10.6	9.9	10.4	11.4	8.7	10.0
4	13.7	12.8	---	---	---	---	9.7	8.8	9.2	11.4	9.0	10.1
5	14.6	12.8	13.5	---	---	---	9.2	8.7	9.0	12.2	9.6	10.8
6	14.9	13.1	13.6	---	---	---	10.4	9.3	9.8	12.3	9.8	11.0
7	13.0	12.3	---	---	---	---	11.2	10.3	10.8	10.7	9.0	9.9
8	---	---	---	---	---	---	10.6	9.2	10.0	9.2	8.1	8.7
9	---	---	---	---	---	---	9.8	8.9	9.3	9.7	7.7	8.6
10	---	---	---	---	---	---	9.6	8.6	9.1	8.6	7.4	7.9
11	---	---	---	12.3	11.3	---	10.1	9.2	9.6	9.9	7.8	8.8
12	---	---	---	12.7	10.3	11.4	9.9	9.1	9.5	8.4	7.6	8.0
13	---	---	---	13.2	11.0	12.1	9.0	8.3	8.6	9.1	8.9	---
14	---	---	---	13.7	12.0	12.7	9.2	8.6	8.9	9.5	8.4	9.1
15	---	---	---	13.5	11.5	12.3	9.7	8.8	9.3	8.7	7.8	8.3
16	---	---	---	---	---	---	10.7	9.5	9.9	8.7	7.4	7.9
17	---	---	---	---	---	---	10.3	8.8	9.6	8.4	6.9	7.7
18	---	---	---	13.0	11.9	---	10.2	8.6	9.4	8.2	6.5	7.4
19	---	---	---	12.7	11.0	11.8	11.4	9.2	10.0	8.7	7.0	7.7
20	---	---	---	12.5	10.6	11.6	12.6	10.9	11.6	9.6	7.6	8.6
21	---	---	---	11.8	9.9	10.7	11.5	9.6	10.6	9.9	8.1	9.0
22	---	---	---	13.2	11.2	12.5	10.3	8.1	9.1	9.9	7.9	8.8
23	---	---	---	13.2	12.4	12.8	8.1	7.0	---	7.9	7.1	7.5
24	---	---	---	12.2	10.9	11.6	---	---	---	8.4	7.4	7.8
25	---	---	---	12.7	11.6	12.2	---	---	---	8.6	7.4	8.0
26	---	---	---	12.8	11.3	12.2	11.6	9.9	---	8.8	7.8	8.3
27	---	---	---	11.9	10.5	11.1	11.7	9.1	10.3	9.0	8.0	8.4
28	---	---	---	---	---	---	11.5	8.9	10.1	9.2	8.3	8.7
29	---	---	---	---	---	---	10.0	8.2	9.1	8.5	7.9	8.2
30	---	---	---	---	---	---	11.1	7.9	9.4	8.4	7.6	8.0
31	---	---	---	---	---	---	---	---	---	8.0	7.3	7.7
MONTH	---	---	---	---	---	---	12.6	7.0	9.7	12.3	6.5	8.7

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.0	7.3	7.6	7.1	---	8.4	6.3	7.3	7.5	5.6	6.4
2	7.6	6.9	7.3	7.8	6.9	7.3	8.1	6.3	7.0	6.5	5.4	6.0
3	8.6	7.6	---	8.0	6.7	7.3	6.7	5.9	6.3	8.1	6.3	7.3
4	8.7	7.9	---	8.2	6.5	7.3	6.5	5.7	6.0	7.8	7.0	7.3
5	8.7	7.4	8.0	7.6	6.5	6.8	7.5	5.8	6.5	7.9	7.4	7.6
6	8.9	7.3	8.0	7.9	6.6	7.2	7.4	6.2	6.8	7.7	7.4	7.6
7	8.6	7.3	7.9	8.2	6.6	7.3	7.3	6.3	6.7	8.2	7.8	8.0
8	8.6	7.5	7.9	8.4	6.6	7.5	7.7	6.3	7.1	7.9	7.4	7.7
9	8.7	7.4	8.0	8.5	6.2	7.3	7.6	6.5	7.0	8.0	7.2	7.6
10	8.0	6.5	7.3	8.6	6.8	7.8	7.6	6.3	7.1	8.2	7.4	7.7
11	8.4	5.8	7.0	8.7	6.2	7.5	8.0	6.6	7.2	8.1	7.3	7.7
12	8.4	6.2	7.2	9.1	6.8	7.8	8.9	6.7	7.7	8.3	7.2	7.6
13	8.3	5.8	6.9	9.5	7.0	8.2	8.9	7.1	7.9	8.3	7.0	7.6
14	8.5	6.2	7.1	9.5	6.9	8.1	8.8	6.8	7.8	8.1	6.8	7.4
15	8.9	6.7	7.7	7.9	6.3	---	9.5	6.6	8.1	9.1	7.3	8.2
16	7.0	6.2	6.5	---	---	---	9.8	6.8	8.2	9.6	7.9	8.7
17	8.0	6.9	---	---	---	---	8.6	6.1	7.3	9.9	7.8	8.8
18	7.9	6.4	7.1	9.0	7.4	---	6.4	5.5	6.0	9.8	7.8	8.8
19	8.1	6.5	7.3	8.2	6.2	7.0	6.5	5.7	6.0	10.1	7.7	8.9
20	7.7	6.3	6.9	7.9	5.7	6.7	7.6	6.0	6.9	10.0	7.6	8.7
21	7.3	5.9	6.5	8.0	5.9	6.9	8.1	6.5	7.2	9.0	6.8	7.9
22	6.2	5.8	6.0	7.8	6.0	6.8	7.7	6.5	7.0	8.7	6.7	7.7
23	7.0	6.0	6.5	8.2	5.9	6.9	8.1	6.3	7.1	10.1	7.3	8.7
24	7.9	7.0	7.5	7.3	6.5	6.8	8.5	6.4	7.3	11.1	8.8	9.9
25	8.2	7.6	7.9	8.1	6.6	7.3	6.8	6.5	6.7	11.4	9.4	10.3
26	8.3	8.2	---	7.9	6.6	7.2	7.4	6.3	6.8	11.2	9.1	10.0
27	---	---	---	8.0	6.5	7.2	7.9	6.7	7.2	10.5	8.4	9.3
28	---	---	---	7.9	6.1	6.9	8.2	6.6	7.2	9.2	7.6	8.2
29	---	---	---	9.2	6.6	7.8	8.3	6.2	7.1	7.9	7.2	7.6
30	---	---	---	7.5	6.5	7.0	7.5	5.8	6.6	8.4	7.6	8.1
31	---	---	---	8.0	6.2	7.0	7.5	5.6	6.5	---	---	---
MONTH	8.9	5.8	---	9.5	5.7	7.3	9.8	5.5	7.0	11.4	5.4	8.1

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.1	7.3	7.2	6.7	6.9	7.2	7.0	7.1	---	---	---
2	7.5	7.3	7.4	7.1	6.7	6.9	7.2	7.0	7.1	---	---	---
3	7.4	7.3	---	7.0	6.8	6.9	7.7	7.0	7.3	---	---	---
4	7.4	7.3	---	7.0	6.8	6.9	7.7	7.5	7.6	---	---	---
5	7.4	7.2	---	7.2	6.9	7.0	7.7	7.6	---	---	---	---
6	7.4	7.1	7.3	7.1	7.0	7.0	---	---	---	---	---	---
7	7.4	7.1	7.3	7.1	7.0	7.0	---	---	---	7.0	6.9	---
8	7.5	7.3	7.4	7.3	7.0	7.0	---	---	---	7.0	6.9	7.0
9	7.5	7.0	7.3	7.2	6.9	---	---	---	---	6.9	6.8	6.9
10	7.2	7.0	---	---	---	---	7.7	7.2	---	6.9	6.8	6.8
11	7.1	6.9	---	---	---	---	7.7	7.3	7.5	6.8	6.8	6.8
12	7.4	6.7	7.0	7.2	7.0	---	7.7	7.3	7.5	6.9	6.8	6.9
13	7.3	6.9	7.1	7.2	7.0	7.1	8.3	7.3	7.6	7.0	6.9	6.9
14	7.3	7.1	7.2	7.2	6.9	7.1	8.2	7.6	7.9	7.0	7.0	7.0
15	7.4	6.9	7.2	7.2	6.9	7.1	7.7	7.3	7.6	7.2	6.9	7.1
16	7.4	7.1	7.2	7.2	6.9	7.1	7.6	7.3	7.5	7.2	7.0	7.2
17	7.3	7.0	7.2	7.2	7.0	7.1	7.8	7.5	7.7	7.3	7.2	7.2
18	7.3	7.0	7.2	7.3	6.9	7.1	7.7	7.4	---	7.5	7.2	7.2
19	7.3	6.9	7.2	7.3	7.0	---	---	---	---	7.3	7.0	7.2
20	7.5	7.0	7.3	---	---	---	---	---	---	7.2	7.2	7.2
21	7.4	7.0	7.2	---	---	---	---	---	---	7.7	7.0	7.3
22	7.1	6.8	7.0	---	---	---	---	---	---	7.8	7.6	---
23	7.8	6.8	7.4	---	---	---	---	---	---	---	---	---
24	7.8	7.5	7.7	---	---	---	---	---	---	---	---	---
25	7.7	7.5	7.6	---	---	---	---	---	---	---	---	---
26	7.8	7.6	7.7	7.1	7.0	---	7.4	7.3	---	---	---	---
27	7.7	7.3	7.5	7.1	6.9	7.1	---	---	---	---	---	---
28	7.7	7.3	7.5	7.8	7.0	7.4	---	---	---	6.5	6.5	---
29	8.9	7.5	8.1	7.0	6.9	7.0	---	---	---	6.6	6.4	6.5
30	7.6	6.7	7.1	7.3	6.9	7.0	---	---	---	6.8	6.4	6.6
31	7.2	6.7	6.9	---	---	---	---	---	---	7.0	6.8	6.9
MONTH	8.9	6.7	7.3	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.8	6.9	8.0	7.1	7.6	7.3	6.9	7.1	8.0	7.0	7.3
2	6.9	6.8	6.9	7.7	7.1	7.5	7.4	7.1	7.2	8.0	7.0	7.4
3	6.9	6.8	6.9	8.3	7.5	7.8	7.5	7.2	7.3	8.0	7.2	7.6
4	7.0	6.9	6.9	8.6	7.3	8.0	7.9	7.2	7.6	8.6	7.1	7.7
5	7.1	6.9	7.0	8.4	7.6	7.9	8.0	7.9	8.0	9.0	7.8	8.3
6	7.1	6.9	7.0	8.2	7.5	7.8	7.9	7.1	7.3	9.1	8.2	8.7
7	7.1	6.9	7.0	8.4	7.5	8.0	7.7	7.3	7.5	9.1	8.2	8.6
8	7.1	7.0	7.1	8.2	7.6	7.9	7.6	7.4	7.5	8.4	7.9	8.1
9	7.1	7.0	7.1	7.8	7.5	7.6	7.4	7.1	7.2	8.6	7.9	8.1
10	7.1	7.0	---	8.2	7.4	7.7	7.3	7.2	7.2	8.5	7.7	8.1
11	---	---	---	8.0	7.5	7.7	8.2	7.2	7.6	8.3	7.7	7.9
12	---	---	---	8.0	7.1	7.6	8.1	7.4	7.9	8.0	7.1	7.5
13	---	---	---	8.0	7.3	7.7	7.4	7.0	7.2	6.9	6.6	6.8
14	---	---	---	8.0	7.4	7.8	7.2	7.0	---	6.8	6.5	6.7
15	7.3	7.2	---	8.2	7.4	7.8	7.5	7.2	7.3	7.0	6.7	6.9
16	7.1	6.9	7.0	8.0	7.1	7.5	7.1	6.8	---	7.0	6.6	6.9
17	7.2	6.8	7.0	7.2	7.0	7.1	7.1	6.8	6.9	7.2	6.8	7.0
18	7.3	6.9	7.1	7.8	7.0	7.4	7.3	6.8	7.0	7.2	6.9	7.1
19	7.6	7.1	7.4	7.8	7.1	7.5	7.1	6.8	7.0	7.1	7.0	7.1
20	7.7	7.3	7.5	8.0	7.2	7.6	7.7	6.9	7.2	7.8	7.0	7.4
21	8.0	7.4	7.7	8.0	6.9	7.3	7.9	6.9	7.4	8.0	7.4	7.7
22	7.8	7.3	7.5	7.0	6.8	6.9	8.0	6.9	7.5	8.2	7.5	7.8
23	8.0	7.4	7.6	7.2	6.9	7.0	8.1	7.0	7.6	7.8	7.4	7.5
24	8.0	7.5	7.7	7.3	6.9	7.1	8.2	7.3	7.7	7.6	7.4	7.5
25	7.9	7.4	7.7	7.4	7.0	7.2	8.4	7.4	7.9	7.6	7.4	7.5
26	8.0	7.5	7.7	7.5	7.0	7.2	8.3	7.4	7.9	7.6	7.4	7.5
27	7.9	7.2	7.5	7.7	7.1	7.4	8.3	7.3	7.8	7.5	7.4	7.5
28	7.7	7.1	7.4	7.9	7.0	7.5	8.4	7.3	7.9	7.5	7.0	7.3
29	---	---	---	7.7	7.2	7.3	8.2	7.3	7.8	7.5	7.4	7.4
30	---	---	---	7.1	6.9	7.0	8.2	7.3	7.8	7.6	7.3	7.4
31	---	---	---	6.9	6.[illegible]	6.9	---	---	---	7.5	7.4	7.5
MONTH	8.0	6.8	7.3	8.6	6.8	7.5	8.4	6.8	7.5	9.1	6.5	7.5

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.3	7.3	6.7	6.4	---	7.7	7.3	7.5	7.2	6.8	7.0
2	7.3	7.3	7.3	6.7	6.5	6.6	7.7	7.3	7.5	7.0	6.8	6.9
3	7.5	7.1	7.4	6.7	6.5	6.6	7.4	7.2	7.3	7.1	6.8	6.9
4	7.8	7.3	7.5	6.7	6.5	---	7.3	7.2	7.3	7.1	6.7	6.9
5	8.0	7.7	7.8	---	---	---	7.6	7.2	7.4	7.2	7.1	7.1
6	8.0	7.4	7.7	---	---	---	7.5	7.3	7.4	7.3	7.2	7.3
7	7.8	7.4	7.6	---	---	---	7.5	7.4	7.4	7.4	7.2	7.3
8	7.7	7.6	7.7	---	---	---	7.6	7.4	7.5	7.5	7.2	7.3
9	7.9	7.6	7.7	---	---	---	7.6	7.4	7.5	7.4	7.0	7.3
10	8.2	7.7	7.9	8.0	6.9	---	7.7	7.4	7.6	7.3	7.1	7.2
11	8.1	7.5	7.8	7.3	6.8	7.1	7.6	7.3	7.5	7.3	7.2	7.3
12	8.2	7.3	7.6	7.5	6.8	7.1	7.8	7.4	7.6	7.3	7.2	7.2
13	8.0	7.4	7.7	7.5	6.9	7.2	7.9	7.5	7.7	7.3	7.2	7.2
14	7.8	7.0	7.3	7.6	6.9	7.2	8.1	7.5	7.8	7.2	7.1	7.2
15	7.4	6.8	7.1	7.3	6.9	---	8.3	7.6	8.0	7.2	7.0	7.1
16	7.2	6.7	7.0	---	---	---	8.3	7.6	8.0	7.3	7.0	7.2
17	8.0	6.8	7.6	---	---	---	8.1	7.5	7.9	7.4	7.0	7.2
18	7.8	7.1	7.6	8.3	7.9	---	7.4	7.2	7.3	7.5	7.0	7.3
19	7.8	7.0	7.5	8.2	7.6	7.8	7.4	7.2	7.3	7.6	7.0	7.4
20	7.7	7.4	7.6	7.9	7.4	7.6	7.6	7.4	7.5	7.6	7.1	7.4
21	7.7	7.4	7.5	7.8	7.3	7.6	7.5	7.3	7.4	7.5	7.1	7.3
22	7.4	7.3	7.4	8.0	7.4	7.7	7.3	7.1	7.3	7.2	7.0	7.1
23	7.4	7.1	---	8.0	7.5	7.7	7.3	7.1	7.2	7.2	6.8	7.0
24	7.1	7.0	---	7.8	7.3	7.4	7.4	7.0	7.2	7.2	6.8	7.0
25	7.1	7.0	---	7.6	7.3	7.4	7.0	6.7	6.8	7.2	6.8	7.0
26	---	---	---	7.7	7.3	7.4	6.9	6.7	6.8	7.3	6.8	7.1
27	---	---	---	7.8	7.4	7.5	6.9	6.7	6.8	7.3	6.9	7.2
28	---	---	---	7.9	7.4	7.6	7.1	6.8	6.9	7.2	6.7	7.0
29	---	---	---	8.2	7.4	7.8	7.2	6.8	7.0	6.8	6.6	6.7
30	---	---	---	7.9	7.3	7.5	7.1	6.8	7.0	7.4	6.6	7.1
31	---	---	---	7.5	7.2	7.4	7.1	6.8	7.0	---	---	---
MONTH	8.2	6.7	---	---	---	---	8.3	6.7	7.4	7.6	6.6	7.1

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMRER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.0	17.0	11.5	10.5	10.5	8.0	6.0	7.0	7.0	6.0	6.5
2	18.0	16.5	17.0	11.0	9.5	10.5	6.0	4.5	5.0	6.0	4.5	5.5
3	19.0	17.0	18.0	11.5	10.5	11.0	5.5	3.0	4.5	5.5	4.5	5.0
4	20.0	18.5	19.5	10.0	9.0	9.5	6.5	4.0	5.0	5.5	4.5	5.0
5	20.5	17.0	19.5	9.0	8.0	8.5	13.0	6.0	9.0	4.5	3.5	4.0
6	18.5	15.0	17.0	8.0	6.5	7.0	13.0	9.5	---	4.5	4.0	4.0
7	15.5	14.5	15.0	7.0	5.5	6.0	9.5	7.0	8.0	5.0	4.5	4.5
8	16.0	14.0	15.5	6.5	5.0	5.5	6.5	5.5	6.0	4.5	3.0	3.5
9	17.0	15.0	16.0	---	---	---	6.5	5.5	6.0	3.0	1.0	1.5
10	16.5	16.0	---	---	---	---	6.5	6.0	6.0	3.5	2.0	3.0
11	19.0	15.5	---	---	---	---	6.0	4.5	5.0	4.5	3.5	4.0
12	16.0	14.5	15.0	5.0	5.0	---	4.0	3.0	3.5	4.5	3.0	4.0
13	16.0	14.0	15.0	7.0	4.5	5.5	4.0	3.0	3.0	3.0	1.0	1.5
14	17.0	15.0	15.5	9.5	6.5	8.0	6.0	4.5	5.5	1.5	0.5	1.0
15	16.0	14.0	15.0	12.0	8.5	10.0	6.0	4.5	5.0	4.0	1.5	2.5
16	16.0	14.5	15.5	12.0	10.5	11.5	5.0	1.5	3.5	6.0	4.0	5.0
17	14.5	12.0	13.0	10.5	6.5	9.0	1.5	0.0	0.5	6.5	5.5	6.0
18	11.5	10.5	11.0	7.0	5.5	6.0	1.5	0.5	1.0	5.0	3.5	4.0
19	11.0	9.0	10.0	8.0	6.0	6.5	1.0	0.5	1.0	5.5	3.5	4.5
20	12.0	9.5	11.0	8.5	6.5	7.5	3.5	0.5	1.5	5.5	4.5	5.5
21	13.0	10.0	11.5	8.0	6.5	7.0	5.0	3.5	4.5	5.5	4.0	5.0
22	12.0	10.0	11.0	10.0	8.0	9.0	3.5	3.0	3.0	5.0	4.0	4.5
23	12.0	9.5	11.0	9.5	8.0	9.0	4.5	3.5	4.0	6.5	4.5	5.5
24	13.0	10.0	11.5	10.0	8.5	9.0	4.5	3.5	4.0	7.0	6.5	6.5
25	12.0	10.0	11.0	11.5	9.5	10.5	5.0	3.5	4.0	7.0	6.0	6.5
26	13.5	10.5	12.0	11.5	10.5	11.0	7.0	5.0	6.0	6.0	4.5	5.0
27	14.0	11.0	12.5	11.0	10.5	10.5	10.0	8.0	9.0	10.0	5.5	7.5
28	12.0	10.5	11.5	13.5	11.0	12.0	10.0	8.5	9.0	9.5	8.5	8.5
29	13.5	11.5	12.5	13.0	9.0	11.0	8.0	6.5	7.5	9.0	8.0	8.5
30	13.5	10.5	11.5	9.0	8.0	8.0	8.0	6.5	7.0	9.0	7.0	8.5
31	10.5	9.0	10.0	---	---	---	6.5	6.0	6.0	8.5	6.5	7.5
MONTH	20.5	9.0	14.0	13.5	4.5	9.0	13.0	0.0	5.0	10.0	0.5	5.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	5.5	6.0	8.5	6.5	7.0	8.0	5.5	6.5	15.0	13.0	13.5
2	5.5	4.5	5.0	8.0	6.0	6.5	10.0	7.0	8.5	15.0	11.5	13.5
3	4.0	3.0	3.5	9.5	6.5	7.5	13.5	9.0	11.0	14.5	12.0	13.0
4	3.0	2.0	---	12.0	9.0	10.0	15.0	13.5	14.0	13.0	11.0	12.0
5	---	---	---	12.0	11.5	12.0	15.0	13.5	14.5	13.0	10.0	11.5
6	---	---	---	11.5	10.0	10.5	13.5	10.0	11.5	13.5	10.0	11.5
7	---	---	---	13.0	9.5	11.0	11.0	8.5	10.0	13.5	12.0	13.0
8	---	---	---	12.0	10.5	11.5	11.0	10.0	10.5	15.5	13.0	14.0
9	---	---	---	10.5	8.0	9.0	10.0	8.0	8.5	16.5	13.5	15.0
10	---	---	---	10.0	8.0	8.5	9.5	6.0	7.5	16.0	15.0	15.5
11	---	---	---	9.0	6.5	8.0	11.0	8.0	9.5	16.5	12.0	14.0
12	---	---	---	8.5	7.0	8.0	13.5	10.0	11.5	16.5	14.5	16.0
13	---	---	---	7.0	5.0	5.5	14.5	13.0	13.5	14.5	13.0	13.5
14	---	---	---	6.0	4.0	5.0	14.5	13.0	14.0	16.5	12.0	14.0
15	4.5	3.5	---	6.5	5.0	5.5	14.5	13.5	14.0	20.0	15.5	18.0
16	3.5	1.5	2.0	8.5	6.5	7.5	14.5	11.0	13.0	21.5	18.5	20.0
17	4.0	2.0	3.0	8.0	5.5	6.5	14.5	11.5	13.0	23.0	19.5	21.0
18	4.0	2.0	3.0	8.0	3.5	5.5	15.0	10.5	13.5	22.0	20.5	21.5
19	5.0	3.5	4.0	9.0	6.5	7.5	15.0	11.5	13.0	21.0	19.0	19.5
20	6.5	5.0	5.5	10.0	8.0	9.0	13.5	9.5	11.5	19.0	16.5	18.0
21	6.5	4.5	5.5	10.0	8.5	9.0	15.5	11.0	13.5	19.0	16.0	17.5
22	10.0	6.0	7.5	8.5	5.5	7.0	18.0	14.5	16.0	20.5	17.0	18.5
23	10.0	6.5	8.0	10.0	6.0	7.5	18.0	15.0	16.0	20.5	19.5	20.0
24	6.5	4.5	5.5	11.5	10.0	10.5	14.5	11.5	12.5	20.5	18.5	19.5
25	5.5	3.5	4.5	10.5	6.5	8.0	13.5	10.0	12.0	19.5	18.0	19.0
26	4.0	1.0	3.0	8.0	5.0	6.5	14.5	11.0	13.0	18.5	16.5	17.0
27	4.0	1.5	3.0	9.0	6.5	8.0	15.5	12.0	14.0	16.5	15.5	15.5
28	6.5	3.5	5.0	10.5	8.5	9.5	16.5	13.0	15.0	16.5	14.5	15.5
29	---	---	---	10.0	6.5	8.0	19.5	15.5	17.5	16.5	16.0	16.0
30	---	---	---	6.0	6.0	6.0	18.5	15.0	16.0	19.0	16.5	17.5
31	---	---	---	6.0	4.5	5.0	---	---	---	19.0	18.0	18.5
MONTH	---	---	---	13.0	3.5	8.0	19.5	5.5	12.5	23.0	10.0	16.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.0	18.5	23.5	20.5	22.0	25.0	22.0	24.0	25.5	23.5	24.5
2	18.5	16.5	17.5	23.5	20.5	22.0	24.5	23.0	23.5	25.0	23.0	24.0
3	19.0	15.5	17.0	25.0	22.0	23.5	24.0	22.0	23.0	23.5	21.5	22.5
4	20.5	17.0	19.0	26.5	24.5	25.5	25.0	23.5	24.0	22.0	19.5	20.5
5	21.0	19.0	20.0	25.5	22.0	23.5	24.5	23.0	23.5	19.5	18.0	19.0
6	21.0	19.0	20.0	24.5	23.0	24.0	24.0	22.0	23.0	19.0	18.0	18.5
7	20.5	19.0	19.5	25.5	23.5	24.5	23.0	21.5	22.0	18.0	16.5	17.0
8	19.5	18.5	19.0	26.0	23.5	25.0	21.5	20.5	21.0	19.5	17.0	18.5
9	22.0	18.5	20.0	26.5	24.0	25.0	23.0	20.5	21.5	20.5	19.0	19.5
10	25.0	21.5	23.0	27.0	25.0	26.0	23.5	21.0	22.0	21.5	19.5	20.5
11	25.0	24.0	24.5	25.5	23.0	24.5	23.0	20.0	21.5	21.5	20.5	21.0
12	25.0	21.5	23.0	24.0	21.5	22.5	23.0	20.0	21.5	22.0	20.5	21.0
13	25.0	23.5	24.5	24.0	20.5	22.5	23.0	20.5	21.5	24.0	21.0	22.5
14	24.5	21.0	22.0	25.0	21.0	23.0	24.5	21.0	23.0	23.5	21.0	22.5
15	21.0	19.5	20.5	25.5	24.0	---	25.0	22.0	23.5	20.5	19.0	19.5
16	21.5	20.0	20.5	---	---	---	24.5	21.5	23.5	19.5	18.0	19.0
17	23.0	20.0	21.5	---	---	---	24.5	23.0	23.5	20.0	18.0	19.0
18	22.0	20.0	21.0	24.5	24.0	---	24.0	21.0	23.0	20.0	18.0	19.0
19	22.0	19.5	21.0	25.5	23.5	24.5	24.5	22.0	23.5	20.0	18.5	19.5
20	23.5	21.0	22.0	25.0	23.0	24.0	24.5	21.5	23.5	21.0	19.0	20.0
21	23.5	22.0	22.5	24.0	21.0	22.5	24.5	22.0	23.5	22.0	20.5	21.0
22	23.5	21.0	22.5	23.5	20.5	22.0	24.0	23.0	23.5	20.0	18.5	19.0
23	23.5	18.5	20.0	22.0	20.5	21.5	25.0	23.0	24.0	18.5	15.5	17.0
24	19.0	17.0	18.0	21.5	20.0	20.5	25.5	23.5	24.5	15.5	13.0	14.0
25	18.5	17.0	18.0	21.0	19.0	20.0	24.5	21.5	23.0	14.0	11.5	13.0
26	18.5	16.5	17.0	21.5	20.5	21.0	24.0	23.0	23.5	15.5	13.0	14.0
27	19.0	18.0	18.5	23.5	21.0	22.0	24.5	22.0	23.0	16.5	14.0	15.0
28	18.0	16.0	17.0	24.5	23.0	23.5	25.5	23.5	24.5	17.0	15.0	16.0
29	19.0	15.5	17.0	25.5	23.0	24.5	26.5	24.5	25.5	19.0	18.0	18.5
30	21.5	18.5	20.0	24.5	23.0	24.0	26.5	25.0	25.5	18.0	16.0	16.5
31	---	---	---	25.0	23.0	24.0	25.5	24.0	24.5	---	---	---
MONTH	25.0	15.5	20.0	27.0	19.0	23.0	26.5	20.0	23.5	25.5	11.5	19.0

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, at gaging station on right bank 0.2 mi (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 mi (6.8 km) upstream from mouth. Sediment samples are collected at the Henry Clay Bridge.

DRAINAGE AREA.--314 mi^2 (813 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, November 1951 to September 1952, October 1956 to September 1961, October 1961 to September 1962 (partial-record station), October 1963 to September 1972, February to September 1974.
Water temperatures: November 1956 to September 1961, October 1970 to September 1973.
Sediment records: December 1946 to September 1961, July 1962 to September 1974.

REMARKS.--Sediment data for this station on page 388. Streamflow records for water year 1973 available in the Maryland and Delaware State Annual Report, Part 1. Unpublished chemical-quality data and specific conductance, pH, and temperature of sediment samples available in the district office at Parkville, Md. Sediment data from 01481000 Brandywine Creek at Chadds Ford, Pa., are used in computation of sediment records.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
FEB.						
01...	1215	511	193	7.5	5.0	--
MAR.						
01...	1045	477	220	--	4.5	--
APR.						
01...	1000	1040	170	--	5.0	--
MAY						
01...	0950	472	207	7.6	10.5	--
JUNE						
03...	1020	429	180	--	16.5	--
JULY						
03...	1016	309	220	7.3	23.0	8.0
10...	0925	233	211	7.7	26.5	6.9
AUG.						
02...	1140	177	225	7.3	25.0	8.0
SEP.						
03...	1125	225	231	7.8	23.5	8.5

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
FEB.												
01...	1215	8.1	2400	260	15	6.3	7.7	2.2	47	0	39	20
MAY												
01...	0950	6.4	450	70	16	6.6	8.8	2.1	50	0	41	20
JULY												
10...	0925	8.4	1600	150	18	7.2	9.5	1.6	56	0	46	22

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
FEB.											
01...	14	.2	2.6	.01	--	2.6	97	63	25	--	2.4
MAY											
01...	13	.1	--	--	.13	2.1	98	67	26	2	2.0
JULY											
10...	15	.2	--	--	.19	1.9	110	75	29	1	1.8

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.

LOCATION.--Lat 39°41'21", long 75°31'19", New Castle County, at tidal-gaging station located on channel side of west tower of south bridge between Pigeon Point, Del., and Deepwater Point, N.J.

DRAINAGE AREA.--11,030 mi^2 (28,600 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1955 to September 1974.
Water temperatures: October 1956 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 7,180 micromhos July 29; minimum, 100 micromhos on many days during November and March to June.
Dissolved oxygen: Maximum, 12.8 mg/l Nov. 9; minimum, 0.0 mg/l July 8.
pH: Maximum, 7.1 Nov. 8, Mar. 16, 17; minimum, 5.3 June 1.
Water temperatures: Maximum, 28.0°C July 10; minimum, 1.5°C Jan. 14-16, 18-21.

Period of record:
Specific conductance (1963-74): Maximum, 12,700 micromhos Nov. 13, 1966; minimum, 100 micromhos on many days.
Dissolved oxygen (1962-74): Maximum, 13.5 mg/l Dec. 29, 1969; minimum, 0.0 mg/l on many days during summer periods.
pH (1968-74): Maximum, 9.3 Nov. 10-11, 13, 1970; minimum, 4.2 Nov. 6, 1969.
Water temperatures: Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3440	1500	2460	3550	890	2280	---	---	---	---	---	---
2	3640	1580	2460	2370	810	---	---	---	---	200	200	---
3	3050	1440	2310	---	---	---	3760	1400	---	200	200	200
4	3080	1320	2160	---	---	---	3520	1120	2260	240	200	202
5	2770	1380	2130	2920	840	---	3920	1160	2460	240	200	208
6	2970	1090	2010	2240	560	1390	3080	640	1840	280	200	232
7	3090	1190	1990	2440	560	1390	2280	560	1320	240	200	---
8	3170	1200	2050	3520	100	1610	2360	480	1180	---	---	---
9	3240	1290	2220	2840	100	1360	3200	600	1490	---	---	---
10	3100	1310	2270	3320	600	1640	1760	440	850	---	---	---
11	3740	1520	2590	4640	720	2100	1080	360	577	---	---	---
12	3620	1550	2670	5160	760	2460	1080	400	507	---	---	---
13	3780	1540	2620	5600	880	2640	1240	400	547	---	---	---
14	3700	1500	2610	5400	1040	---	920	360	503	---	---	---
15	3360	1590	2540	---	---	---	480	360	427	---	---	---
16	3500	1610	2560	---	---	---	480	360	420	---	---	---
17	3440	1670	2550	---	---	---	480	360	422	---	---	---
18	3550	1800	2630	---	---	---	440	360	398	---	---	---
19	3450	1680	2560	---	---	---	480	360	402	---	---	---
20	3290	1910	2670	---	---	---	800	280	407	---	---	---
21	3400	1700	2610	---	---	---	480	360	382	---	---	---
22	3310	1880	2640	---	---	---	360	320	352	320	220	---
23	3300	1850	2610	---	---	---	360	320	325	300	200	236
24	3480	1910	---	---	---	---	320	320	320	260	200	---
25	---	---	---	---	---	---	320	320	320	---	---	---
26	---	---	---	5960	1960	---	320	320	320	---	---	---
27	---	---	---	5840	1360	3450	320	320	---	---	---	---
28	---	---	---	1600	1600	---	---	---	---	360	280	---
29	---	---	---	---	---	---	---	---	---	340	260	303
30	---	---	---	---	---	---	---	---	---	340	240	289
31	2060	1730	---	---	---	---	---	---	---	320	240	265
MONTH	3780	1090	---	---	---	---	3920	280	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	260	220	240	---	---	---	580	100	277	940	100	369
2	260	200	237	---	---	---	540	180	262	960	200	438
3	240	220	---	---	---	---	320	160	240	1320	180	631
4	---	---	---	---	---	---	500	180	256	1000	100	---
5	---	---	---	---	---	---	440	100	241	---	---	---
6	---	---	---	---	---	---	300	140	215	---	---	---
7	---	---	---	---	---	---	340	120	238	500	180	---
8	---	---	---	---	---	---	320	160	240	1000	340	---
9	---	---	---	---	---	---	380	100	230	---	---	---
10	---	---	---	---	---	---	320	120	235	---	---	---
11	---	---	---	---	---	---	280	140	211	---	---	---
12	---	---	---	---	---	---	320	100	208	---	---	---
13	---	---	---	---	---	---	320	100	193	300	200	---
14	---	---	---	---	---	---	340	140	216	420	180	268
15	---	---	---	---	---	---	360	100	234	320	180	259
16	---	---	---	---	---	---	360	100	231	320	220	267
17	---	---	---	---	---	---	380	100	230	320	200	258
18	---	---	---	---	---	---	340	140	225	300	200	258
19	---	---	---	---	---	---	300	120	202	360	220	279
20	---	---	---	---	---	---	520	100	229	560	200	273
21	---	---	---	---	---	---	340	100	221	840	200	327
22	---	---	---	---	---	---	340	120	238	820	180	353
23	---	---	---	---	---	---	520	120	257	740	180	374
24	---	---	---	---	---	---	660	100	277	840	200	419
25	---	---	---	---	---	---	620	100	274	1120	200	445
26	---	---	---	480	180	---	420	100	246	1180	200	527
27	---	---	---	320	120	247	780	100	265	1520	240	667
28	---	---	---	320	160	250	620	160	310	1560	220	713
29	---	---	---	380	180	264	900	180	344	1540	200	614
30	---	---	---	820	100	325	840	100	356	1340	180	497
31	---	---	---	880	100	301	---	---	---	1200	180	502
MONTH	---	---	---	---	---	---	900	100	247	1560	100	---

	JUNE			JULY			AUGUST			SEPTEMRER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1240	180	508	4020	620	2010	5780	2420	4010	3260	1820	2490
2	980	180	426	3980	560	2000	5900	2220	4110	2480	1700	2270
3	1200	200	498	4000	540	2000	6720	2180	4140	2500	1060	1940
4	1260	180	474	3880	760	2140	5740	1940	3710	3220	540	1710
5	1200	200	478	4060	820	2300	4860	1500	3220	2740	500	1620
6	1180	100	492	3460	620	1990	4300	1520	2940	2360	440	1360
7	1240	200	684	3460	760	2010	3880	1620	---	1980	340	1150
8	1340	180	626	3340	760	2040	---	---	---	1480	240	858
9	1520	220	661	3720	960	2320	---	---	---	1040	280	623
10	1540	220	790	3400	1280	2480	---	---	---	1420	200	528
11	---	---	---	3340	1680	2730	---	---	---	2260	220	663
12	---	---	---	2700	2480	2560	5280	1600	---	2120	220	757
13	---	---	---	2840	2620	2770	5520	1580	3100	1460	200	668
14	---	---	---	2940	2800	2840	5460	1600	3160	1500	220	428
15	---	---	---	4240	1020	2730	5860	1540	3220	580	240	393
16	---	---	---	4800	980	2450	5920	1560	3370	560	500	531
17	3540	240	---	5060	1160	2720	5160	1780	3600	580	560	573
18	3540	320	1440	5780	1200	3030	5900	1780	3660	560	500	540
19	3080	380	1560	4980	1300	3160	5620	1580	3540	2580	440	1010
20	3780	220	1670	5480	1300	3240	5320	1700	3520	2400	380	1330
21	3680	400	1800	5900	1660	3690	5500	1800	3720	2420	280	1350
22	3600	540	1920	6600	1860	4000	5340	1860	3710	2720	460	1190
23	4000	580	2090	6220	2060	4260	5000	1300	3360	1980	360	1170
24	4360	600	2240	6820	2540	4420	4420	1420	2960	2320	440	1330
25	3760	580	2180	6360	2320	4310	4580	1320	2820	2600	680	1490
26	3520	580	2130	6460	2500	4390	4860	1440	2950	2960	580	1520
27	3880	520	2030	6420	2500	4360	4420	1620	2920	3000	680	1590
28	3660	800	2160	7000	2700	4470	4200	1380	2690	3020	620	1660
29	3980	540	2140	7180	2820	4690	4060	1260	2590	2420	300	1400
30	4320	600	2070	6680	2660	4510	4080	1260	2570	1760	200	---
31	---	---	---	6240	2600	4240	3700	1220	2340	---	---	---
MONTH	4360	100	---	7180	540	3120	6720	1220	3280	3260	200	1180

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	1.7	3.5	---	---	---	---	---	---	---	---	---
2	6.0	2.4	3.9	---	---	---	---	---	---	---	---	---
3	5.3	1.9	3.5	---	---	---	7.2	2.2	---	---	---	---
4	4.9	1.7	3.0	---	---	---	5.6	1.2	3.3	---	---	---
5	5.3	1.6	3.2	7.2	4.2	---	6.2	0.8	3.5	---	---	---
6	5.0	1.8	3.5	6.6	3.9	5.1	4.8	0.9	2.7	---	---	---
7	5.4	1.9	3.3	7.9	4.9	5.9	3.7	1.1	2.0	9.7	8.8	---
8	5.7	1.8	3.4	11.1	4.0	6.4	4.4	1.2	2.6	9.9	9.4	9.6
9	5.4	1.7	3.5	12.8	4.0	6.0	9.6	3.8	6.4	9.8	9.1	9.5
10	4.7	1.0	3.0	8.1	4.4	5.9	7.1	5.6	6.5	9.7	9.1	9.5
11	6.0	1.8	3.7	9.6	5.0	6.7	7.2	5.4	6.5	9.6	8.9	9.4
12	5.3	1.5	3.5	9.3	5.0	6.9	8.2	7.1	7.6	9.4	8.6	9.1
13	5.6	1.1	3.6	10.4	5.1	7.3	9.2	7.4	8.1	9.4	8.6	9.0
14	6.2	2.1	4.1	9.2	4.6	---	10.2	8.6	9.0	9.4	8.7	9.1
15	7.3	2.3	4.7	---	---	---	10.3	8.9	9.5	9.5	8.8	9.2
16	7.6	2.9	5.1	---	---	---	10.7	9.2	10.0	9.4	8.9	9.1
17	7.8	3.2	5.3	---	---	---	11.0	10.9	---	9.2	8.5	8.8
18	8.2	3.7	5.8	---	---	---	---	---	---	8.8	8.2	8.5
19	8.1	3.2	5.7	---	---	---	9.4	8.4	---	8.9	8.2	8.6
20	7.9	3.9	6.2	---	---	---	8.3	7.7	---	8.7	8.0	8.4
21	8.1	3.2	6.0	---	---	---	---	---	---	8.9	8.4	8.6
22	7.5	3.4	5.7	---	---	---	---	---	---	9.5	8.4	9.0
23	6.8	2.8	5.1	---	---	---	---	---	---	10.0	9.5	9.7
24	6.6	2.1	---	---	---	---	---	---	---	10.3	9.8	10.0
25	---	---	---	---	---	---	---	---	---	10.2	9.5	9.9
26	---	---	---	8.0	2.3	---	---	---	---	9.7	9.3	9.6
27	---	---	---	8.1	0.9	4.2	---	---	---	9.9	9.2	9.5
28	---	---	---	2.5	2.5	---	---	---	---	9.3	8.3	8.8
29	---	---	---	---	---	---	---	---	---	9.0	8.3	8.6
30	---	---	---	---	---	---	---	---	---	9.0	8.4	8.6
31	---	---	---	---	---	---	---	---	---	9.2	8.3	8.8
MONTH	---	---	---	---	---	---	---	---	---	10.3	8.0	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	9.1	9.3	---	---	---	9.7	8.7	9.3	5.8	4.2	5.2
2	9.9	9.2	9.5	---	---	---	9.3	8.3	8.8	6.5	4.5	5.6
3	10.0	9.8	---	---	---	---	8.6	8.1	8.3	6.0	4.4	5.5
4	---	---	---	---	---	---	8.6	8.0	8.2	5.7	3.2	---
5	---	---	---	---	---	---	8.6	8.0	8.3	---	---	---
6	---	---	---	---	---	---	8.5	8.1	8.3	---	---	---
7	---	---	---	---	---	---	8.4	8.2	8.3	6.2	4.5	---
8	---	---	---	---	---	---	8.8	8.1	8.4	6.3	5.3	---
9	---	---	---	---	---	---	8.7	8.5	8.6	---	---	---
10	---	---	---	---	---	---	9.2	8.5	8.8	---	---	---
11	---	---	---	---	---	---	9.2	8.5	8.8	---	---	---
12	---	---	---	---	---	---	8.8	8.2	8.5	---	---	---
13	---	---	---	7.7	6.7	---	8.7	7.8	8.3	6.3	3.7	---
14	---	---	---	8.6	6.2	7.8	8.2	7.7	7.9	7.2	3.6	5.4
15	---	---	---	9.4	7.4	8.3	8.3	7.7	8.0	7.6	3.7	5.4
16	---	---	---	9.2	7.3	---	8.6	8.1	8.4	6.7	3.7	4.9
17	---	---	---	---	---	---	8.4	8.0	8.2	6.9	3.7	5.0
18	---	---	---	---	---	---	8.2	7.8	8.0	7.4	3.4	4.9
19	---	---	---	---	---	---	7.9	7.6	7.8	7.3	3.4	5.1
20	---	---	---	---	---	---	7.8	7.1	7.5	7.6	3.3	5.4
21	---	---	---	---	---	---	7.5	6.6	7.2	7.5	3.5	5.7
22	---	---	---	---	---	---	7.3	6.2	6.8	7.4	3.5	5.4
23	---	---	---	---	---	---	7.4	5.8	6.6	6.6	3.1	4.7
24	---	---	---	---	---	---	7.1	5.7	6.6	5.4	2.6	4.1
25	---	---	---	---	---	---	7.7	5.6	6.7	4.8	2.2	3.7
26	---	---	---	8.5	7.8	---	7.2	5.3	6.4	4.8	2.1	3.6
27	---	---	---	8.6	7.9	8.1	7.2	5.2	6.3	4.2	2.2	3.2
28	---	---	---	8.4	7.7	8.0	6.6	5.0	6.1	4.1	2.0	3.1
29	---	---	---	8.9	7.8	8.3	6.1	4.6	5.6	5.5	2.3	3.9
30	---	---	---	9.8	8.7	9.3	6.1	4.4	5.3	5.5	2.6	3.8
31	---	---	---	9.6	8.9	9.3	---	---	---	5.7	2.5	3.8
MONTH	---	---	---	---	---	---	9.7	4.4	7.7	7.6	2.0	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	2.2	3.7	6.1	3.7	4.8	3.4	1.7	2.6	3.2	0.7	2.0
2	5.6	1.7	3.2	5.7	2.8	4.1	4.1	1.5	2.8	3.8	0.6	2.0
3	5.4	2.2	3.4	5.8	2.1	3.4	4.5	2.6	3.7	4.3	1.1	2.6
4	5.2	1.7	3.0	4.9	1.4	2.6	5.0	3.2	4.3	4.6	1.3	2.9
5	4.8	1.5	2.8	5.0	1.3	2.7	5.0	3.0	4.1	5.1	1.9	3.4
6	4.9	1.2	2.6	3.9	0.2	1.6	4.5	2.6	3.8	5.0	2.0	3.6
7	5.5	2.4	3.8	2.8	0.2	1.3	4.1	2.2	---	6.4	2.7	4.5
8	6.3	3.8	4.8	2.6	0.0	1.1	---	---	---	5.0	1.7	3.7
9	6.1	3.2	4.4	2.7	0.1	1.3	---	---	---	3.7	1.0	2.5
10	5.0	2.8	---	3.3	0.2	1.7	---	---	---	2.5	0.5	1.4
11	---	---	---	4.9	0.8	2.7	---	---	---	3.1	0.4	1.1
12	---	---	---	5.9	1.7	3.8	5.4	3.0	---	1.9	0.6	1.0
13	---	---	---	5.8	2.6	4.2	5.4	2.9	3.7	1.8	0.8	1.1
14	---	---	---	6.0	2.8	4.2	5.0	2.6	3.4	3.8	1.2	2.4
15	---	---	---	4.1	2.2	3.3	5.0	2.3	3.2	4.0	1.7	2.9
16	---	---	---	4.4	2.0	3.0	4.8	2.0	3.0	3.5	1.8	2.9
17	5.2	2.3	---	4.4	2.0	3.2	4.6	2.2	3.2	3.4	2.0	2.6
18	5.0	1.4	2.8	4.6	2.2	3.2	4.7	1.8	2.9	2.4	2.1	2.3
19	4.5	0.7	2.5	4.0	1.8	3.0	3.8	1.3	2.4	3.5	2.2	2.6
20	5.0	1.3	2.5	4.2	1.6	3.2	4.6	1.2	2.7	3.4	1.5	2.5
21	3.9	0.5	2.1	4.6	2.3	3.6	5.1	1.3	3.1	4.4	2.0	2.8
22	3.7	0.2	1.7	4.5	2.1	3.4	4.5	2.0	3.2	5.6	2.6	3.2
23	3.6	0.4	2.1	4.2	1.9	3.2	4.2	2.0	3.1	5.4	2.8	4.0
24	4.4	0.7	2.5	4.3	2.0	3.3	3.5	1.3	2.4	5.9	3.9	4.9
25	4.6	0.8	2.7	4.1	1.8	3.0	3.6	1.2	2.2	6.1	4.0	4.8
26	4.5	0.5	2.6	3.7	1.7	2.8	5.4	1.1	2.5	6.0	3.8	4.5
27	4.1	0.3	2.1	3.5	1.6	2.6	4.7	1.5	2.8	5.3	3.4	4.2
28	7.8	1.5	4.4	3.6	1.6	2.4	3.9	1.5	2.5	5.4	3.2	4.0
29	6.6	4.2	5.3	4.5	1.4	2.7	3.6	1.3	2.2	4.4	2.6	3.6
30	7.2	3.9	5.0	3.9	1.9	2.9	3.7	1.1	2.2	4.2	2.3	---
31	---	---	---	3.5	1.7	2.6	3.6	0.9	2.1	---	---	---
MONTH	7.8	0.2	---	6.1	0.0	2.9	5.4	0.9	3.0	6.4	0.4	3.0

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	6.6	6.4	---
3	---	---	---	---	---	---	6.6	6.4	---	6.5	6.4	6.5
4	---	---	---	---	---	---	6.5	6.3	6.4	6.6	6.4	6.5
5	---	---	---	6.7	6.5	---	6.8	6.3	6.5	6.6	6.4	6.5
6	---	---	---	6.6	6.5	6.5	6.5	6.3	6.4	6.5	6.4	6.5
7	---	---	---	6.7	6.5	6.6	6.6	6.3	6.5	6.5	6.2	6.4
8	---	---	---	7.1	6.5	6.6	6.6	6.4	6.5	6.4	6.2	6.3
9	---	---	---	7.0	6.5	6.6	6.6	6.3	6.5	6.4	6.2	6.3
10	---	---	---	6.7	6.5	6.6	6.7	6.4	6.6	6.4	6.3	6.3
11	---	---	---	6.8	6.5	6.6	6.8	6.6	6.7	6.3	6.2	6.3
12	---	---	---	6.8	6.6	6.7	6.8	6.7	6.8	6.5	6.3	6.4
13	---	---	---	6.8	6.6	6.7	6.8	6.7	6.8	6.4	6.3	6.4
14	---	---	---	6.8	6.6	---	6.8	6.7	6.8	6.4	6.3	6.4
15	---	---	---	---	---	---	6.8	6.7	6.8	6.4	6.3	6.4
16	---	---	---	---	---	---	6.8	6.7	6.8	6.4	6.2	6.3
17	---	---	---	---	---	---	6.9	6.7	6.8	6.5	6.3	6.4
18	---	---	---	---	---	---	6.9	6.7	6.8	6.4	6.3	6.3
19	---	---	---	---	---	---	6.9	6.7	6.8	6.4	6.2	6.3
20	---	---	---	---	---	---	6.8	6.7	---	6.5	6.2	6.4
21	---	---	---	---	---	---	---	---	---	6.4	6.3	6.3
22	---	---	---	---	---	---	---	---	---	6.5	6.2	6.4
23	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
24	---	---	---	---	---	---	---	---	---	6.5	6.4	6.5
25	---	---	---	---	---	---	---	---	---	6.4	6.4	6.4
26	---	---	---	6.7	6.4	---	---	---	---	6.4	6.3	6.4
27	---	---	---	6.7	6.3	6.5	---	---	---	6.9	6.3	6.4
28	---	---	---	6.4	6.4	---	---	---	---	6.5	6.3	6.4
29	---	---	---	---	---	---	---	---	---	6.6	6.3	6.4
30	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
31	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
MONTH	---	---	---	---	---	---	---	---	---	6.9	6.2	6.4

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.5	6.5	---	---	---	6.9	6.7	6.9	6.6	6.4	6.5
2	6.6	6.4	6.5	---	---	---	6.9	6.6	6.8	6.6	6.4	6.5
3	6.6	6.5	---	---	---	---	6.8	6.5	6.7	6.6	6.2	6.4
4	---	---	---	---	---	---	6.9	6.6	6.8	6.5	6.4	---
5	---	---	---	---	---	---	6.8	6.0	6.7	---	---	---
6	---	---	---	---	---	---	6.9	6.8	6.8	---	---	---
7	---	---	---	---	---	---	6.9	6.8	6.8	6.5	6.2	---
8	---	---	---	---	---	---	6.9	6.7	6.8	6.6	6.3	---
9	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
10	---	---	---	---	---	---	6.9	6.8	6.9	---	---	---
11	---	---	---	---	---	---	6.9	6.5	6.7	---	---	---
12	---	---	---	---	---	---	6.7	6.2	6.5	---	---	---
13	---	---	---	6.6	6.4	---	6.6	6.1	6.4	6.6	6.4	---
14	---	---	---	6.7	6.5	6.6	6.6	6.2	6.4	6.6	6.4	6.5
15	---	---	---	6.9	6.5	6.7	6.6	6.2	6.4	6.9	6.5	6.7
16	---	---	---	7.1	6.5	6.8	6.6	6.5	6.5	6.6	6.4	6.6
17	---	---	---	7.1	6.8	---	6.6	6.5	6.6	6.7	6.3	6.5
18	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.5
19	---	---	---	---	---	---	6.6	6.5	6.6	6.6	6.2	6.4
20	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.4
21	---	---	---	---	---	---	6.5	6.4	6.5	6.7	6.1	6.4
22	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.4
23	---	---	---	---	---	---	6.7	6.5	6.6	6.6	6.3	6.4
24	---	---	---	---	---	---	6.6	6.5	6.6	6.5	6.0	6.3
25	---	---	---	---	---	---	6.7	6.4	6.6	6.4	6.2	6.3
26	---	---	---	6.8	6.6	---	6.7	6.4	6.6	6.4	6.1	6.3
27	---	---	---	6.9	6.6	6.7	6.8	6.4	6.6	6.4	6.2	6.3
28	---	---	---	6.7	6.6	6.7	6.6	6.4	6.6	6.3	6.0	6.2
29	---	---	---	6.8	6.6	6.7	6.6	6.4	6.5	6.4	6.0	6.2
30	---	---	---	6.9	6.4	6.6	6.6	6.0	6.5	6.5	6.0	6.2
31	---	---	---	6.9	6.7	6.8	---	---	---	6.3	6.0	6.2
MONTH	---	---	---	---	---	---	6.9	6.0	6.6	6.9	6.0	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	5.3	5.9	6.4	6.1	6.3	---	---	---	---	---	---
2	6.3	5.8	6.1	6.4	6.1	6.2	---	---	---	---	---	---
3	6.3	6.0	6.1	6.4	6.1	6.2	---	---	---	---	---	---
4	6.4	5.9	6.1	6.3	6.1	6.2	---	---	---	---	---	---
5	6.3	5.8	6.1	6.3	6.0	6.2	---	---	---	---	---	---
6	6.3	5.9	6.1	6.2	6.0	6.1	---	---	---	---	---	---
7	6.3	5.9	6.1	6.2	6.0	6.1	---	---	---	---	---	---
8	6.2	5.8	6.0	6.2	6.0	6.1	---	---	---	---	---	---
9	6.3	6.0	6.1	6.2	6.1	6.1	---	---	---	---	---	---
10	6.3	6.0	6.1	6.3	6.0	6.2	---	---	---	---	---	---
11	---	---	---	6.4	6.1	6.3	---	---	---	---	---	---
12	---	---	---	6.5	6.1	6.3	---	---	---	---	---	---
13	---	---	---	6.5	6.2	6.3	---	---	---	---	---	---
14	---	---	---	6.6	6.2	6.3	---	---	---	---	---	---
15	---	---	---	6.6	6.2	6.4	---	---	---	---	---	---
16	---	---	---	6.6	6.3	6.4	---	---	---	---	---	---
17	6.7	6.3	---	6.6	6.3	6.4	---	---	---	---	---	---
18	6.7	6.3	6.4	6.7	6.4	6.5	---	---	---	---	---	---
19	6.6	6.3	6.4	6.6	6.4	6.5	---	---	---	---	---	---
20	6.7	6.3	6.5	6.7	6.5	6.6	---	---	---	---	---	---
21	6.7	6.4	6.5	6.8	6.5	6.6	---	---	---	---	---	---
22	6.7	6.4	6.5	6.7	6.4	6.5	---	---	---	---	---	---
23	6.7	6.4	6.6	6.6	6.4	6.5	---	---	---	---	---	---
24	6.7	6.4	6.5	6.6	6.4	6.5	---	---	---	---	---	---
25	6.6	6.1	6.4	6.6	6.0	6.4	---	---	---	---	---	---
26	6.3	5.9	6.2	6.5	6.4	6.5	---	---	---	---	---	---
27	6.3	6.0	6.2	6.5	6.3	6.4	---	---	---	---	---	---
28	6.4	6.0	6.2	6.5	6.4	6.4	---	---	---	---	---	---
29	6.4	6.1	6.3	6.6	6.3	6.4	---	---	---	---	---	---
30	6.5	6.1	6.3	6.5	6.3	6.4	---	---	---	---	---	---
31	---	---	---	6.4	6.3	6.3	---	---	---	---	---	---
MONTH	6.7	5.3	---	6.8	6.0	6.3	---	---	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	15.0	14.0	14.5	---	---	---	---	---	---
2	21.0	20.5	20.5	15.0	14.0	---	---	---	---	5.0	4.0	---
3	21.5	20.5	21.0	---	---	---	10.0	9.0	---	5.0	4.0	4.5
4	21.5	21.0	21.5	---	---	---	10.0	9.0	9.5	5.0	4.0	4.5
5	21.5	21.0	21.5	14.5	13.5	---	10.0	9.0	9.5	4.5	4.0	4.0
6	21.5	20.5	21.0	14.0	12.0	13.5	10.5	9.5	10.0	4.5	4.0	4.0
7	21.0	20.5	20.5	13.5	11.0	12.0	10.0	9.5	9.5	4.5	3.5	4.0
8	21.0	20.5	20.5	12.0	10.5	11.5	10.0	9.0	9.5	4.0	3.5	4.0
9	21.0	20.0	20.5	15.5	10.5	11.5	9.0	8.0	8.5	3.5	3.0	3.5
10	21.0	20.0	20.5	11.5	10.0	10.5	9.5	8.5	9.0	3.5	2.0	3.0
11	20.5	20.0	20.0	10.5	9.0	10.0	9.0	8.5	8.5	3.5	3.0	3.0
12	20.5	19.5	20.0	10.5	9.0	9.5	8.5	8.0	8.5	3.5	3.0	3.0
13	20.0	19.5	20.0	10.5	9.0	9.5	8.0	7.0	7.5	3.0	2.0	2.5
14	20.0	19.5	19.5	10.5	9.5	---	8.0	7.0	7.5	3.0	1.5	2.0
15	19.5	19.0	19.0	---	---	---	7.0	6.5	7.0	2.0	1.5	2.0
16	19.0	18.5	19.0	---	---	---	6.5	6.0	6.0	3.0	1.5	2.0
17	18.5	17.0	18.0	---	---	---	6.0	6.0	---	3.0	2.0	2.0
18	18.0	16.5	17.0	---	---	---	---	---	---	2.0	1.5	1.5
19	17.0	16.0	16.5	---	---	---	5.5	5.0	---	2.0	1.5	2.0
20	16.5	15.5	16.0	---	---	---	6.0	4.5	5.0	2.0	1.5	2.0
21	16.5	15.5	16.0	---	---	---	6.0	4.5	5.0	3.0	1.5	2.0
22	16.5	15.5	15.5	---	---	---	4.5	3.5	4.0	4.0	2.0	3.0
23	16.0	15.5	15.5	---	---	---	3.5	3.0	3.0	4.5	3.5	3.5
24	16.0	15.5	---	---	---	---	3.0	2.0	3.0	4.5	3.5	4.0
25	---	---	---	---	---	---	3.0	2.0	2.5	4.5	3.5	4.0
26	---	---	---	10.5	9.5	---	3.5	2.0	3.0	5.0	4.0	4.5
27	---	---	---	11.0	9.5	10.0	3.5	3.5	---	6.0	4.0	5.0
28	---	---	---	9.5	9.5	---	---	---	---	5.5	4.5	5.0
29	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
30	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
31	15.0	15.0	---	---	---	---	---	---	---	6.5	5.0	6.0
MONTH	21.5	15.0	---	---	---	---	---	---	---	6.5	1.5	3.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.0	6.0	---	---	---	7.0	6.5	6.5	17.0	16.0	16.5
2	6.0	5.5	6.0	---	---	---	8.0	6.5	7.0	16.5	15.5	16.0
3	6.0	5.5	---	---	---	---	8.5	7.0	7.5	16.5	16.0	16.0
4	7.0	6.0	---	---	---	---	9.0	8.0	8.5	16.5	16.0	---
5	8.0	6.5	6.5	---	---	---	9.0	8.5	9.0	---	---	---
6	8.0	6.5	7.0	---	---	---	9.0	8.5	9.0	---	---	---
7	7.0	6.5	7.0	---	---	---	9.5	8.5	9.0	16.0	16.0	---
8	8.0	6.5	7.0	---	---	---	9.5	9.0	9.5	15.5	15.5	---
9	7.0	7.0	7.0	---	---	---	10.0	9.0	9.0	---	---	---
10	7.0	6.5	7.0	---	---	---	10.0	9.0	9.5	---	---	---
11	8.0	6.5	---	---	---	---	10.5	9.0	10.0	---	---	---
12	---	---	---	---	---	---	11.0	9.5	10.5	---	---	---
13	---	---	---	8.0	7.0	---	11.5	10.5	11.0	16.5	15.5	---
14	---	---	---	8.0	6.5	7.5	11.5	10.5	11.0	17.0	16.0	16.5
15	---	---	---	8.5	7.0	7.5	11.0	10.0	10.5	18.5	16.5	17.5
16	---	---	---	8.5	7.0	---	10.5	10.0	10.0	19.0	18.0	18.5
17	---	---	---	---	---	---	11.0	10.0	10.5	19.5	18.5	19.0
18	---	---	---	---	---	---	11.5	10.5	11.0	20.0	19.0	19.5
19	---	---	---	9.0	8.0	---	11.5	11.0	11.0	19.5	19.5	19.5
20	---	---	---	9.0	8.0	8.5	12.0	11.0	11.0	19.5	19.0	19.5
21	---	---	---	9.0	8.0	8.5	13.0	11.0	11.5	19.5	19.0	19.5
22	---	---	---	8.5	8.0	8.5	13.5	12.0	12.5	20.0	19.5	19.5
23	---	---	---	9.0	8.0	---	14.0	13.0	13.5	20.0	20.0	20.0
24	---	---	---	---	---	---	13.5	13.0	13.5	20.5	20.0	20.0
25	---	---	---	---	---	---	14.0	13.0	13.5	20.5	20.0	20.0
26	---	---	---	8.5	7.0	---	14.0	13.0	13.5	20.0	19.5	20.0
27	---	---	---	8.0	7.0	7.5	14.5	13.5	14.0	20.0	19.5	20.0
28	---	---	---	8.5	7.0	8.0	15.0	14.0	14.5	20.0	19.0	19.5
29	---	---	---	8.0	7.0	7.5	16.0	14.5	15.0	20.0	19.5	19.5
30	---	---	---	7.0	6.5	7.0	16.5	15.5	16.0	20.0	19.5	20.0
31	---	---	---	7.0	6.5	7.0	---	---	---	20.0	19.5	19.5
MONTH	---	---	---	---	---	---	16.5	6.5	11.0	20.5	15.5	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.0	23.5	22.0	22.5	27.0	26.0	26.5	27.0	26.5	26.5
2	20.0	19.5	20.0	24.0	23.0	23.0	27.0	26.5	26.5	27.0	26.5	26.5
3	20.5	19.5	19.5	24.5	23.5	24.0	27.0	26.5	26.5	26.5	26.0	26.0
4	20.5	19.5	20.0	25.0	24.0	24.5	27.0	26.5	26.5	26.0	25.5	25.5
5	21.0	20.0	20.5	25.0	24.5	25.0	27.0	26.5	26.5	25.5	24.5	25.0
6	21.5	20.5	21.0	25.5	25.0	25.0	27.0	26.5	26.5	24.5	24.0	24.5
7	21.0	20.5	20.5	26.0	25.0	25.5	26.5	26.0	---	24.0	23.5	23.5
8	21.0	20.5	20.5	27.0	25.5	26.0	---	---	---	23.5	23.0	23.5
9	22.0	20.5	21.0	27.0	26.0	26.5	---	---	---	24.0	23.0	23.5
10	23.5	21.5	22.0	28.0	26.5	27.0	---	---	---	24.0	23.5	23.5
11	---	---	---	27.0	26.5	26.5	---	---	---	24.0	23.5	24.0
12	---	---	---	26.5	26.0	26.0	26.0	25.5	---	24.5	23.5	24.0
13	---	---	---	26.5	25.5	26.0	26.0	25.0	25.5	24.5	24.0	24.0
14	---	---	---	27.0	25.5	26.0	26.0	25.5	25.5	24.5	23.5	24.0
15	---	---	---	27.0	26.0	26.5	26.5	25.5	26.0	23.5	23.0	23.5
16	---	---	---	27.0	26.0	26.5	26.5	26.0	26.0	23.5	23.0	23.0
17	24.5	24.0	---	27.0	26.0	26.5	26.5	26.0	26.0	23.5	23.0	23.0
18	24.5	24.0	24.0	27.0	26.0	26.5	26.5	26.0	26.0	23.5	23.0	23.0
19	25.0	24.0	24.5	27.0	26.0	26.5	26.5	26.0	26.5	23.5	23.0	23.0
20	25.0	24.0	24.5	26.5	25.5	26.0	27.0	26.0	26.5	23.5	23.0	23.0
21	25.0	24.5	25.0	26.0	25.5	25.5	26.5	26.0	26.5	23.5	23.0	23.5
22	25.5	24.5	25.0	26.0	25.0	25.5	26.5	26.0	26.5	23.5	22.0	23.0
23	25.0	24.5	24.5	26.0	25.5	25.5	27.0	26.0	26.5	22.0	21.0	21.5
24	24.5	24.0	24.0	25.5	25.0	25.0	27.0	26.5	26.5	21.0	20.0	20.5
25	24.0	23.0	23.5	25.5	24.5	25.0	27.0	26.5	26.5	20.5	19.5	20.0
26	23.5	22.0	23.0	25.5	25.0	25.0	27.0	26.0	26.5	20.5	19.5	20.0
27	23.5	23.0	23.0	26.0	25.0	25.5	26.5	25.5	26.0	20.5	19.5	20.0
28	23.0	21.0	22.0	26.0	25.0	25.5	26.5	26.0	26.0	20.5	20.0	20.0
29	22.0	21.0	21.5	26.5	25.5	26.0	27.0	26.5	26.5	20.5	20.0	20.5
30	23.0	21.5	22.0	26.5	25.5	26.0	27.0	26.5	26.5	20.0	20.0	---
31	---	---	---	26.5	26.0	26.0	27.0	26.5	26.5	---	---	---
MONTH	25.5	19.5	---	28.0	22.0	25.5	27.0	25.0	26.5	27.0	19.5	23.0

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, water-quality recorder located on platform about 0.4 mi (0.6 km) downstream from Reedy Island near Port Penn.

DRAINAGE AREA.--11,200 mi^2 (29,100 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1974.
Water temperatures: October 1969 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 19,000 micromhos Oct. 26; minimum, 100 micromhos Feb. 1, 2.
Dissolved oxygen: Maximum, 12.3 mg/l Jan. 18; minimum, 2.5 mg/l Sept. 15.
pH: Maximum, 8.2 Sept. 29; minimum, 6.1 May 17.
Water temperatures: Maximum, 27.0°C Aug. 31, Sept. 1; minimum, 0.5°C Jan. 18, Feb. 10, 11.

Period of record:
Specific conductance: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days in August 1969, April 1970, and February 1974.
Dissolved oxygen (1970-74): Maximum, 13.7 mg/l Feb. 18, 19, 1973; minimum, 0.3 mg/l Sept. 16, 17, 1971.
pH (1970-74): Maximum, 8.8 Aug. 29, Sept. 2, 1973; minimum, 5.4 Dec. 31, 1972.
Water temperatures (1970-74): Maximum, 29.0°C Aug. 10-12, Sept. 3, 1972; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14320	12320	13570	---	---	---	---	---	---
2	---	---	---	12120	10480	11230	---	---	---	---	---	---
3	---	---	---	10360	9520	10100	---	---	---	---	---	---
4	---	---	---	11200	10000	10710	14600	7680	---	---	---	---
5	---	---	---	13920	10720	11740	16080	7960	11320	---	---	---
6	---	---	---	13280	12360	12850	13400	5520	9060	---	---	---
7	---	---	---	14920	6080	11560	12320	5240	8630	---	---	---
8	---	---	---	18200	6200	11670	12520	7520	9410	---	---	---
9	---	---	---	16240	7520	10890	16080	8240	11940	---	---	---
10	---	---	---	15440	6800	9810	12560	8920	10480	---	---	---
11	---	---	---	17160	7080	10950	9160	6760	8080	6240	1440	---
12	15160	8600	---	16280	7720	11070	8560	5880	7020	3760	1240	2220
13	14880	8080	10690	14720	7880	10720	8760	5640	7030	2560	1000	1510
14	13400	6920	9870	12760	7840	9910	---	---	---	4960	1000	2040
15	13240	9680	11000	13320	7840	10010	---	---	---	1840	840	1180
16	15680	8640	11030	11640	7240	9710	---	---	---	2880	840	1350
17	13280	9360	---	10360	7000	8190	---	---	---	5520	760	2640
18	---	---	---	10480	6720	---	---	---	---	6840	1000	3400
19	---	---	---	---	---	---	---	---	---	8400	1160	3470
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	7000	1680	---
24	---	---	---	---	---	---	---	---	---	5720	1240	2370
25	16680	10320	---	---	---	---	---	---	---	4640	1200	2770
26	19000	10640	14310	---	---	---	---	---	---	2680	1440	2080
27	16760	10280	13010	---	---	---	---	---	---	3200	1800	2360
28	16160	10600	12700	---	---	---	---	---	---	2040	1200	1580
29	18560	12480	15150	---	---	---	---	---	---	1520	840	1160
30	16800	15280	15890	---	---	---	---	---	---	1200	520	810
31	15280	14320	14750	---	---	---	---	---	---	1200	400	817
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	640	100	375	---	---	---	---	---	---	6240	1320	2880
2	3000	100	669	---	---	---	---	---	---	6360	1440	2940
3	7800	280	3040	---	---	---	---	---	---	5080	1720	3170
4	10320	1440	5320	---	---	---	10160	3200	---	4280	2000	2770
5	9040	3200	5830	---	---	---	6240	3160	4970	6360	1880	3240
6	10920	3520	6380	---	---	---	4760	2840	3880	7000	2160	3730
7	12360	5120	7630	---	---	---	3520	3040	---	7720	1880	3560
8	11160	5320	7350	---	---	---	---	---	---	7440	1960	3770
9	10480	6440	8470	---	---	---	---	---	---	7160	2280	3640
10	10040	6400	7840	---	---	---	---	---	---	5520	2080	3210
11	9800	6560	7860	---	---	---	240	200	---	4320	1840	2920
12	7600	5240	6540	---	---	---	240	200	232	5880	2120	3550
13	9040	5000	6550	---	---	---	240	240	240	4360	1480	2310
14	7280	5080	5800	---	---	---	280	240	245	3720	1160	2100
15	7720	4960	6220	---	---	---	360	240	252	2360	760	1370
16	8200	6040	7120	---	---	---	2520	240	563	1840	480	895
17	13440	6720	---	---	---	---	4560	280	1450	2960	520	1220
18	---	---	---	---	---	---	5720	360	1990	4960	520	1340
19	---	---	---	---	---	---	7440	720	2410	5800	640	1850
20	---	---	---	---	---	---	5600	960	2560	5800	760	2020
21	---	---	---	---	---	---	5680	2520	3730	4960	1040	2230
22	---	---	---	---	---	---	3480	1640	2280	5520	1000	2170
23	---	---	---	---	---	---	3120	960	1780	5680	1040	1970
24	---	---	---	---	---	---	2560	960	1310	5800	1120	2690
25	---	---	---	---	---	---	5000	1200	2220	5000	1480	2500
26	---	---	---	---	---	---	8520	1320	3300	3920	1760	2610
27	---	---	---	---	---	---	6960	1440	3050	4080	1920	2930
28	---	---	---	---	---	---	6400	1440	---	4000	2520	3140
29	---	---	---	---	---	---	---	---	---	4960	2200	3190
30	---	---	---	---	---	---	4320	1360	---	6880	1880	3510
31	---	---	---	---	---	---	---	---	---	6600	2200	3810
MONTH	---	---	---	---	---	---	---	---	---	7720	480	2680

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6280	2120	3730	9920	4800	6620	13840	8840	11470	12320	9800	10770
2	6640	2160	3350	9800	4720	6530	14080	8160	10010	12200	10480	---
3	7880	2320	3870	8680	4680	6130	12560	7120	9140	---	---	---
4	7960	2230	3970	9320	4320	5710	10600	5880	7820	---	---	---
5	6600	2400	3620	8840	4360	5810	9040	5520	7100	11600	8960	---
6	6800	2240	3370	8200	4080	5480	9080	4840	6840	9920	5600	7440
7	6200	2560	3810	8960	4120	5800	10600	4880	6710	8600	7080	---
8	7160	2840	4740	8920	4080	6440	10200	4640	7200	---	---	---
9	8080	2800	4980	10520	4800	7380	9000	4680	6560	---	---	---
10	7800	3160	4950	10960	4880	7410	11720	5200	7870	---	---	---
11	9920	3520	6110	10840	4760	7060	11480	5360	8550	10640	3440	---
12	10160	3800	6770	10920	5480	7920	14160	5920	8960	11240	3520	6800
13	11160	4280	7420	11840	5840	8690	15600	7600	10370	10480	3640	5930
14	11200	4760	7890	14800	6720	9790	13960	7320	9640	9600	3560	5390
15	11440	5480	7990	18720	6600	11510	13600	7080	9020	10360	3680	6350
16	10960	6720	8480	18800	7440	11850	15800	7440	9700	11440	3920	6130
17	10560	5680	7530	18960	7720	11980	14600	8040	10380	9880	3720	5990
18	12040	6200	7740	17520	8600	12350	14600	7560	10480	8480	3960	5770
19	11720	7800	9490	18080	10840	13130	15280	7560	10490	7080	4080	5240
20	11680	6520	8580	14920	10520	12320	15440	7680	10680	7560	4240	5460
21	11280	6240	7980	15840	14240	15090	13280	7720	9970	8040	4240	5610
22	9440	4280	6380	17000	9160	14090	12800	7800	9960	8160	3560	4850
23	8720	4480	5970	15480	8720	11530	11520	7440	9670	8360	3640	5090
24	8160	5520	---	14640	8920	11360	11960	7760	9550	10280	3760	6480
25	---	---	---	13640	8480	10800	12040	7120	8910	12360	5240	8340
26	---	---	---	13400	8360	10630	11040	8280	---	12440	5440	8360
27	10080	5040	---	12960	8800	10540	---	---	---	13000	5160	8170
28	10800	5520	7360	13480	9640	11140	15440	8320	---	12360	5320	8040
29	10520	5040	7560	14240	9080	10980	13960	8000	10210	11040	5280	7620
30	10840	4800	6860	13520	12320	13020	11840	6920	9020	8320	3720	5110
31	---	---	---	13400	11840	12720	12320	8120	9690	---	---	---
MONTH	12040	2120	6170	18960	4080	9740	15800	4640	9140	13000	3440	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	10.3	9.1	---	---	---	---
5	---	---	---	---	---	---	10.2	9.1	9.7	---	---	---
6	---	---	---	---	---	---	10.0	8.8	9.4	---	---	---
7	---	---	---	---	---	---	9.8	7.6	9.0	---	---	---
8	---	---	---	---	---	---	9.8	8.1	9.0	---	---	---
9	---	---	---	---	---	---	10.1	9.2	9.8	---	---	---
10	---	---	---	---	---	---	9.9	7.6	9.0	---	---	---
11	---	---	---	---	---	---	9.5	7.4	8.5	11.4	10.4	---
12	8.2	7.0	---	---	---	---	10.1	6.0	8.2	10.9	10.4	10.7
13	8.1	6.4	7.3	---	---	---	8.8	6.9	---	11.2	10.4	11.0
14	8.1	6.9	7.4	---	---	---	---	---	---	11.4	10.8	11.1
15	8.4	7.0	7.6	---	---	---	---	---	---	11.5	10.9	11.2
16	9.0	7.2	8.1	---	---	---	---	---	---	11.9	10.9	11.5
17	8.4	7.5	---	---	---	---	---	---	---	11.9	11.5	11.7
18	---	---	---	---	---	---	---	---	---	12.3	11.7	12.0
19	---	---	---	---	---	---	---	---	---	12.0	11.0	11.6
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	11.5	10.2	---
24	---	---	---	---	---	---	---	---	---	11.5	10.2	10.7
25	---	---	---	---	---	---	---	---	---	11.2	9.8	10.5
26	---	---	---	---	---	---	---	---	---	10.5	9.4	10.0
27	---	---	---	---	---	---	---	---	---	10.2	9.2	9.9
28	---	---	---	---	---	---	---	---	---	10.1	9.3	9.7
29	---	---	---	---	---	---	---	---	---	10.0	9.3	9.7
30	---	---	---	---	---	---	---	---	---	9.8	8.8	9.2
31	---	---	---	---	---	---	---	---	---	10.3	8.3	8.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	8.6	---	---	---	---	---	---	---	8.0	7.2	7.7
2	---	---	---	---	---	---	---	---	---	8.2	7.7	7.9
3	---	---	---	11.9	11.4	---	---	---	---	8.1	7.4	7.8
4	---	---	---	11.5	11.0	---	---	---	---	8.2	7.4	7.7
5	---	---	---	---	---	---	---	---	---	8.5	7.5	7.9
6	---	---	---	---	---	---	---	---	---	8.5	7.1	7.6
7	---	---	---	---	---	---	---	---	---	7.8	6.9	7.3
8	---	---	---	---	---	---	---	---	---	7.8	6.7	7.3
9	---	---	---	---	---	---	---	---	---	8.0	7.0	7.5
10	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
11	---	---	---	---	---	---	---	---	---	7.3	6.6	7.1
12	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
13	---	---	---	---	---	---	---	---	---	7.3	6.5	6.9
14	---	---	---	---	---	---	---	---	---	7.2	6.4	6.9
15	---	---	---	---	---	---	---	---	---	7.6	6.4	7.0
16	---	---	---	---	---	---	---	---	---	8.0	6.2	7.1
17	---	---	---	---	---	---	---	---	---	7.4	6.2	6.8
18	---	---	---	---	---	---	---	---	---	7.1	6.0	6.5
19	11.9	11.5	---	---	---	---	---	---	---	6.8	5.8	6.3
20	11.9	11.7	---	---	---	---	---	---	---	7.1	5.6	6.4
21	---	---	---	---	---	---	---	---	---	7.1	5.7	6.4
22	---	---	---	---	---	---	---	---	---	7.1	5.7	6.4
23	---	---	---	---	---	---	---	---	---	6.4	5.5	6.0
24	---	---	---	---	---	---	---	---	---	6.0	4.9	5.5
25	---	---	---	---	---	---	8.8	8.3	---	5.9	4.7	5.3
26	---	---	---	---	---	---	9.1	8.1	8.5	5.5	4.9	5.2
27	---	---	---	---	---	---	8.8	7.9	8.3	5.4	4.6	5.0
28	---	---	---	---	---	---	8.5	7.8	---	5.4	4.6	5.1
29	---	---	---	---	---	---	---	---	---	5.7	5.0	5.5
30	---	---	---	---	---	---	7.9	7.2	---	6.1	5.0	5.5
31	---	---	---	---	---	---	---	---	---	6.5	5.2	5.8
MONTH	---	---	---	---	---	---	---	---	---	8.5	4.6	6.6

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	5.3	6.0	7.0	6.0	6.4	5.8	4.7	5.1	5.7	4.8	5.2
2	6.5	5.1	5.8	6.7	5.7	6.2	5.5	4.7	5.1	5.5	4.7	---
3	6.8	5.6	6.1	6.6	5.5	6.0	5.6	4.8	5.1	---	---	---
4	6.8	5.5	6.0	6.8	5.3	5.9	5.7	4.9	5.2	---	---	---
5	6.4	5.5	6.0	6.1	5.3	5.7	5.7	4.6	5.1	---	---	---
6	6.7	5.6	6.2	6.1	5.1	5.6	5.7	4.4	4.8	---	---	---
7	7.3	6.3	6.8	6.2	4.9	5.3	5.2	4.4	4.8	---	---	---
8	7.5	6.7	7.0	5.7	4.7	5.2	4.9	4.3	4.6	---	---	---
9	7.5	6.5	7.0	5.9	4.6	5.1	4.8	4.0	4.4	---	---	---
10	7.4	6.4	6.9	5.5	4.4	5.0	5.5	4.2	4.9	---	---	---
11	7.5	6.3	6.9	6.0	4.5	5.4	5.5	4.9	5.2	---	---	---
12	7.3	6.4	6.8	6.5	5.3	5.9	6.1	4.8	5.4	6.2	4.7	5.4
13	7.8	6.4	7.1	6.5	5.5	6.0	6.0	5.3	5.6	5.9	4.6	5.2
14	7.8	6.5	7.3	6.3	5.5	5.9	5.9	5.1	5.4	6.2	4.0	5.4
15	7.9	6.6	7.4	6.0	5.3	5.7	6.0	4.9	5.4	6.3	2.5	5.2
16	7.8	7.1	7.3	6.0	5.0	5.5	5.9	4.8	5.3	6.5	5.0	5.8
17	7.8	6.6	7.1	6.5	5.1	5.6	5.6	4.8	5.2	6.5	5.0	5.8
18	7.1	5.7	6.4	6.1	5.2	5.6	5.5	4.6	5.0	6.4	5.0	5.7
19	6.7	5.3	5.9	5.9	5.0	5.4	5.7	4.1	5.0	6.4	4.8	5.7
20	6.2	5.2	5.7	6.4	5.3	5.6	5.8	4.6	5.2	6.3	5.1	5.7
21	5.7	4.8	5.3	6.7	5.3	5.8	6.1	4.7	5.3	6.7	5.3	5.[illegible]
22	5.8	4.4	5.0	6.2	5.1	5.7	5.7	4.8	5.3	6.9	5.4	6.3
23	5.1	4.4	4.9	6.0	5.2	5.6	5.8	4.8	5.3	7.9	6.2	7.1
24	5.3	4.4	5.0	5.8	5.1	5.5	5.4	4.8	5.1	8.5	7.2	7.9
25	5.3	4.5	4.9	5.7	5.0	5.3	5.6	4.5	5.1	8.1	7.6	7.9
26	5.2	4.3	4.8	5.7	5.0	5.3	5.6	4.7	---	7.9	7.1	7.5
27	5.9	4.2	5.1	5.7	4.8	5.3	---	---	---	7.6	6.9	7.2
28	6.8	5.5	6.3	5.7	4.8	5.3	6.1	5.5	---	7.6	6.9	7.3
29	7.0	6.1	6.4	6.0	4.8	5.4	6.0	5.3	5.6	7.5	6.8	7.2
30	6.7	5.9	6.4	6.1	5.0	5.5	5.9	5.1	5.5	7.5	6.7	7.2
31	---	---	---	6.2	4.8	5.3	6.0	5.0	5.4	---	---	---
MONTH	7.9	4.2	6.2	7.0	4.4	5.6	6.1	4.0	5.2	---	---	---

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.0	6.6	6.9
2	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
3	---	---	---	---	---	---	---	---	---	7.2	6.7	7.0
4	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
5	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
6	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
7	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
8	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
9	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
10	---	---	---	---	---	---	---	---	---	7.2	6.7	7.0
11	---	---	---	---	---	---	---	---	---	6.8	6.5	6.7
12	---	---	---	---	---	---	---	---	---	7.1	6.6	6.8
13	---	---	---	---	---	---	---	---	---	6.7	6.3	6.5
14	---	---	---	---	---	---	---	---	---	6.7	6.3	6.5
15	---	---	---	---	---	---	---	---	---	6.6	6.3	6.5
16	---	---	---	---	---	---	6.6	6.3	---	6.6	6.2	6.5
17	---	---	---	---	---	---	6.8	6.3	6.5	6.6	6.1	6.4
18	---	---	---	---	---	---	6.9	6.4	6.6	6.5	6.2	6.4
19	---	---	---	---	---	---	7.0	6.5	6.7	6.7	6.4	6.5
20	---	---	---	---	---	---	6.9	6.6	6.7	6.7	6.4	6.6
21	---	---	---	---	---	---	6.8	6.5	6.7	6.7	6.5	6.6
22	---	---	---	---	---	---	6.8	6.6	6.7	6.7	6.5	---
23	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
24	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
25	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
26	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
27	---	---	---	---	---	---	7.1	6.9	7.0	---	---	---
28	---	---	---	---	---	---	7.1	6.9	---	---	---	---
29	---	---	---	---	---	---	---	---	---	7.0	6.8	---
30	---	---	---	---	---	---	6.9	6.7	---	6.9	6.6	6.8
31	---	---	---	---	---	---	---	---	---	6.9	6.6	6.8
MONTH	---	---	---	---	---	---	---	---	---	7.3	6.1	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.6	6.8	7.7	6.8	7.2	7.1	6.6	6.9	7.1	7.0	7.0
2	6.8	6.6	6.7	7.6	6.8	7.1	6.8	6.4	6.6	7.1	7.0	---
3	6.8	6.5	6.7	7.6	6.7	7.0	6.9	6.6	6.7	---	---	---
4	7.0	6.8	6.9	7.1	6.6	6.8	6.8	6.7	6.7	---	---	---
5	7.0	6.7	6.9	7.0	6.7	6.8	7.0	6.6	6.8	---	---	---
6	7.1	6.7	6.9	6.9	6.7	6.8	7.0	6.6	---	---	---	---
7	7.1	6.8	7.0	6.9	6.6	6.7	---	---	---	---	---	---
8	7.3	7.0	7.2	6.8	6.6	---	---	---	---	---	---	---
9	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
10	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
11	7.3	6.8	7.1	---	---	---	---	---	---	7.0	6.6	---
12	7.4	7.1	7.2	---	---	---	6.9	6.7	---	7.0	6.6	6.7
13	7.5	7.0	7.3	---	---	---	6.9	6.6	6.7	6.9	6.6	6.7
14	7.5	7.1	7.3	---	---	---	6.8	6.6	6.7	6.9	6.6	6.7
15	7.6	7.1	7.4	---	---	---	6.8	6.5	6.6	6.9	6.6	6.8
16	7.6	7.4	7.5	---	---	---	6.8	6.4	6.6	6.9	6.6	6.7
17	7.5	7.2	7.4	---	---	---	6.8	6.6	6.7	6.9	6.5	6.7
18	7.3	7.1	---	7.7	7.2	7.4	6.8	6.6	6.7	6.9	6.5	6.7
19	---	---	---	7.5	7.1	7.3	7.1	6.5	6.8	6.9	6.5	6.7
20	---	---	---	7.4	7.1	7.2	7.2	6.9	7.1	6.9	6.6	6.8
21	7.2	6.8	---	7.5	7.2	7.4	7.1	6.9	7.0	6.9	6.5	6.7
22	7.1	6.7	6.9	7.5	7.1	7.3	7.1	6.9	7.0	7.0	6.7	6.8
23	7.1	6.6	6.8	7.3	7.1	7.2	7.1	6.9	7.0	7.1	6.8	6.9
24	6.9	6.6	6.8	7.3	7.0	7.2	7.1	6.9	7.0	7.3	6.9	7.1
25	6.9	6.7	6.8	7.1	6.9	7.0	7.1	6.9	7.0	7.3	7.0	7.1
26	6.9	6.7	6.8	7.1	6.9	7.0	7.0	6.9	---	7.7	7.0	7.3
27	7.1	6.6	6.8	7.1	6.9	7.0	---	---	---	7.8	7.4	7.6
28	7.5	6.7	7.2	7.1	6.9	7.0	7.2	7.0	---	7.7	6.7	7.3
29	7.4	6.9	7.1	7.2	6.9	7.0	7.2	7.0	7.1	8.2	7.1	7.6
30	7.6	6.8	7.1	7.1	6.9	7.1	7.1	7.0	7.1	7.5	7.2	7.4
31	---	---	---	7.1	6.9	7.0	7.2	7.0	7.1	---	---	---
MONTH	7.6	6.5	7.0	---	---	---	7.2	6.4	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	13.0	13.5	---	---	---	---	---	---
2	---	---	---	14.0	12.0	13.5	---	---	---	---	---	---
3	---	---	---	13.5	12.0	13.0	---	---	---	---	---	---
4	---	---	---	13.0	11.5	12.5	9.5	9.0	---	---	---	---
5	---	---	---	12.0	11.0	11.5	9.5	9.0	9.5	---	---	---
6	---	---	---	11.5	10.0	11.0	10.0	9.0	9.5	---	---	---
7	---	---	---	11.5	10.0	11.0	9.5	8.5	9.0	---	---	---
8	---	---	---	12.0	11.0	11.5	8.5	8.0	8.5	---	---	---
9	---	---	---	11.5	10.5	11.0	8.5	8.0	8.0	---	---	---
10	---	---	---	10.5	9.5	10.0	8.5	8.0	8.0	---	---	---
11	---	---	---	10.0	9.0	9.5	8.0	7.0	7.5	3.0	3.0	---
12	18.0	17.0	---	10.0	9.0	9.5	7.0	6.5	6.5	3.0	2.0	2.5
13	18.0	17.0	17.0	10.0	9.5	10.0	6.5	6.0	---	2.0	1.0	1.5
14	17.0	16.5	17.0	10.5	9.5	10.0	---	---	---	1.5	1.0	1.5
15	17.0	16.0	16.5	11.0	10.0	10.5	---	---	---	3.0	1.5	1.5
16	16.5	15.5	16.0	11.0	9.5	10.5	---	---	---	2.0	1.5	2.0
17	15.5	13.0	---	10.0	9.5	10.0	---	---	---	2.0	1.0	1.5
18	---	---	---	10.0	9.0	---	---	---	---	1.5	0.5	1.0
19	---	---	---	---	---	---	---	---	---	2.0	1.0	1.5
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	4.5	3.5	---
24	---	---	---	---	---	---	---	---	---	4.0	3.5	4.0
25	16.5	15.5	---	---	---	---	---	---	---	4.5	4.0	4.0
26	16.5	15.5	15.5	---	---	---	---	---	---	4.5	4.0	4.0
27	16.0	15.5	15.5	---	---	---	---	---	---	5.5	4.0	5.0
28	15.5	15.0	15.0	---	---	---	---	---	---	5.5	5.0	5.0
29	15.5	15.0	15.0	---	---	---	---	---	---	5.5	5.0	5.5
30	15.0	14.0	14.5	---	---	---	---	---	---	6.0	5.0	5.5
31	14.5	13.5	14.0	---	---	---	---	---	---	6.0	5.0	5.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	5.0	5.5	4.0	3.5	---	---	---	---	16.0	14.5	15.0
2	5.0	4.5	5.0	---	---	---	---	---	---	15.0	14.5	14.5
3	4.5	4.0	4.5	---	---	---	---	---	---	15.0	14.0	14.5
4	4.0	3.0	3.5	---	---	---	9.5	9.0	---	15.0	14.5	14.5
5	3.5	2.0	3.0	---	---	---	10.0	9.0	9.5	15.0	14.0	14.5
6	3.0	2.0	2.5	---	---	---	9.5	9.0	9.5	14.5	14.0	14.5
7	3.0	2.0	2.5	---	---	---	9.5	9.0	9.0	14.5	14.0	14.0
8	2.0	1.0	1.5	---	---	---	9.5	9.0	9.5	14.5	14.0	14.0
9	1.5	1.0	1.0	---	---	---	9.0	9.0	9.0	14.5	14.0	14.5
10	1.5	0.5	1.0	---	---	---	9.5	8.5	9.0	15.0	14.0	14.5
11	1.5	0.5	1.0	---	---	---	9.5	8.5	---	15.0	14.5	15.0
12	2.0	1.0	1.0	---	---	---	---	---	---	15.5	14.5	15.0
13	2.0	1.0	1.5	---	---	---	---	---	---	15.5	15.0	15.0
14	2.0	1.5	1.5	---	---	---	---	---	---	16.0	15.0	15.5
15	2.0	1.0	1.5	---	---	---	---	---	---	17.0	15.5	16.0
16	2.0	1.0	1.5	---	---	---	11.5	11.0	---	19.0	16.5	17.0
17	2.0	1.0	1.5	---	---	---	12.0	11.0	11.5	19.0	17.0	18.0
18	3.0	1.0	1.5	---	---	---	13.0	11.0	11.5	19.5	18.0	18.5
19	3.0	1.0	2.0	---	---	---	12.0	11.0	11.5	19.0	18.0	18.5
20	3.5	3.0	3.0	---	---	---	12.0	11.0	11.5	19.0	17.0	18.0
21	4.0	3.0	3.5	---	---	---	13.0	11.5	11.5	19.0	17.0	18.0
22	4.0	3.5	3.5	---	---	---	13.5	11.5	12.5	20.0	18.0	19.0
23	4.0	3.5	3.5	---	---	---	13.5	12.0	13.0	20.0	19.0	19.5
24	4.0	3.5	4.0	---	---	---	13.0	12.0	12.5	20.0	19.0	19.5
25	4.0	3.5	4.0	---	---	---	13.0	11.5	12.0	20.0	19.0	19.5
26	4.0	3.0	3.5	---	---	---	13.0	12.0	12.5	19.5	19.0	19.5
27	4.0	3.5	3.5	---	---	---	13.5	12.0	13.0	19.5	19.0	19.0
28	4.0	3.5	3.5	---	---	---	14.0	13.0	---	19.5	18.5	19.0
29	---	---	---	---	---	---	---	---	---	19.5	18.5	19.0
30	---	---	---	---	---	---	15.5	14.5	---	20.0	19.0	19.5
31	---	---	---	---	---	---	---	---	---	19.5	19.0	19.0
MONTH	5.5	0.5	2.5	---	---	---	---	---	---	20.0	14.0	17.0

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.5	19.5	---	---	---	26.5	25.5	26.0	27.0	26.0	26.5
2	19.5	19.0	19.5	---	---	---	26.0	25.5	25.5	26.0	26.0	---
3	20.5	19.0	19.5	---	---	---	26.0	25.5	26.0	---	---	---
4	20.0	19.0	19.5	---	---	---	26.0	25.5	26.0	---	---	---
5	20.5	19.5	20.0	---	---	---	26.0	25.5	---	---	---	---
6	20.5	19.5	20.0	---	---	---	---	---	---	---	---	---
7	20.0	19.5	20.0	---	---	---	---	---	---	---	---	---
8	20.5	19.5	20.0	26.0	25.5	---	---	---	---	---	---	---
9	21.0	19.5	20.5	26.5	25.0	26.0	---	---	---	---	---	---
10	21.5	20.0	21.0	27.0	25.5	26.0	---	---	---	---	---	---
11	22.0	20.5	21.0	26.5	25.5	25.5	---	---	---	24.0	23.5	---
12	22.0	21.0	21.0	25.5	25.0	25.5	25.5	24.5	---	24.5	23.5	24.0
13	22.0	21.0	21.0	26.0	25.0	25.5	25.5	24.5	25.0	25.0	24.0	24.5
14	22.0	21.0	21.5	26.5	25.0	25.5	26.0	24.5	25.0	24.5	23.5	24.0
15	22.0	21.0	21.5	26.5	25.5	26.0	26.0	25.0	25.5	24.0	23.5	23.5
16	22.0	21.5	21.5	26.5	25.5	25.5	26.0	25.0	25.5	24.0	23.0	23.5
17	23.0	21.5	22.0	26.5	25.0	25.5	26.0	25.0	25.5	24.0	23.5	23.5
18	23.5	21.5	22.0	26.5	25.0	25.5	26.5	25.0	25.5	24.0	23.0	23.5
19	23.5	21.5	22.5	26.5	25.5	25.5	26.0	25.5	25.5	24.0	23.0	23.5
20	23.5	22.0	23.0	26.0	25.0	25.5	26.0	25.5	26.0	24.0	23.5	23.5
21	23.5	22.0	23.0	26.0	24.5	25.0	26.0	25.5	25.5	24.0	23.0	23.5
22	24.0	23.0	23.5	25.5	25.0	25.5	26.0	25.5	25.5	23.5	23.0	23.0
23	23.5	22.0	22.5	25.5	24.5	25.0	26.5	25.5	25.5	23.0	20.5	22.0
24	22.0	21.5	22.0	25.0	24.5	24.5	26.5	25.5	26.0	21.0	20.0	21.0
25	22.0	21.5	21.5	25.0	24.0	24.5	26.5	25.5	26.0	21.0	20.5	20.5
26	21.5	21.0	21.5	24.5	24.0	24.5	26.0	25.5	---	20.5	20.0	20.5
27	23.0	21.0	---	25.5	24.5	24.5	---	---	---	21.0	20.0	20.0
28	---	---	---	26.0	24.5	25.0	26.0	25.5	---	20.5	20.0	20.0
29	---	---	---	26.0	24.5	25.0	26.0	25.5	25.5	21.0	20.5	20.5
30	---	---	---	26.0	24.5	25.5	26.5	25.5	26.0	20.5	20.0	20.0
31	---	---	---	26.5	25.0	25.5	27.0	26.0	26.0	---	---	---
MONTH	24.0	19.0	21.0	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
01429000 - * BR LACKAWAXEN RIVER AT PROMPTON, PA. (LAT 41 35 14 LONG 075 19 38)									
OCT., 1973									
18...	1200	20	--	.29	.13	.31	.44	.02	.00
NOV.									
20...	1645	20	--	.30	.12	.26	--	.04	.01
DEC.									
04...	1600	81	--	.34	.14	.34	.48	.04	.01
01438395 - SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)									
OCT., 1973									
16...	1600	--	48	.18	.03	.15	.18	.01	.01
SEP., 1974									
26...	1415	--	--	.00	.06	.05	.11	.01	--
01438720 - RAYMONDSKILL C. NR. SILVER SPRING, PA. (LAT 41 17 40 LONG 074 50 48)									
OCT., 1973									
16...	1530	13	24	.20	.07	.19	.26	.03	.01
01438900 - DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 50)									
OCT., 1973									
16...	1430	3.7	23	.05	.03	.09	.12	.01	.00
01439500 - BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)									
OCT., 1973									
16...	1230	44	9	.16	.08	.08	.16	.01	.01
01439680 - LITTLE BUSH XILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)									
OCT., 1973									
16...	1315	10	12	.25	.03	.19	.22	.02	.00

DATE	TIME	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)
01438395 - SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)							
OCT., 1973							
16...	1600	.0	25	.0	.0	.9	.0
01438900 - DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 50)							
OCT., 1973							
16...	1430	.0	0	1.2	1.6	4.6	.2
01439500 - BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)							
OCT., 1973							
16...	1230	.0	0	.6	6.5	.8	.2
01439680 - LITTLE BUSH KILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)							
OCT., 1973							
16...	1315	.0	0	.0	.9	.9	.0

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)
01429000 - W BR LACKAWAXEN RIVER AT PROMPTON, PA. (LAT 41 35 14 LONG 075 19 38)									
OCT., 1973 18...	85	6.8	13.0	--	--	--	--	--	--
NOV. 20...	75	6.7	6.0	--	--	--	--	--	--
DEC. 04...	71	6.9	6.0	--	--	--	--	--	--
01438395 - SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)									
OCT., 1973 16...	70	6.1	12.0	10.2	9	2	33	.0	3.0
SEP., 1974 26...	60	6.6	15.5	12.4	230	E9	40	10	--
01438720 - RAYMONDSKILL C. NR. SILVER SPRING, PA. (LAT 41 17 40 LONG 074 50 48)									
OCT., 1973 16...	49	6.4	13.5	10.0	55	E12	160	3.0	3.0
01438900 - DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 50)									
OCT., 1973 16...	57	6.4	12.0	10.2	E5	E0	230	1.0	3.0
01439500 - BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)									
OCT., 1973 16...	41	5.2	13.0	10.0	60	E5	1200	20	20
01439680 - LITTLE BUSH KILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)									
OCT., 1973 16...	39	6.9	12.0	10.0	E22	E1	92	4.0	2.0

DATE	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)
01438395 - SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)						
OCT., 1973 16...	.0	.0	.0	.0	20	0
01438900 - DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 50)						
OCT., 1973 16...	.0	.0	.0	.0	10	0
01439500 - BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)						
OCT., 1973 16...	.0	.0	.0	.0	E5	0
01439680 - LITTLE BUSH KILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)						
OCT., 1973 16...	.0	.0	.0	.0	E0	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)												
OCT., 1973 03...	0825	14	290	--	70	--	9.5	3.3	6.0	1.4	29	0
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)												
OCT., 1973 03...	0905	15	340	--	50	--	11	3.6	6.5	2.2	34	0
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)												
OCT., 1973 03...	0935	15	440	--	60	--	12	4.3	7.5	2.7	37	0
01472109 - STONY RUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)												
OCT., 1973 02...	1120	20	280	--	50	--	18	7.0	22	3.4	68	0
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)												
OCT., 1973 02...	1035	17	250	--	40	--	17	6.9	19	4.0	62	0
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)												
OCT., 1973 03...	1035	8.7	--	180	--	70	6.0	2.2	3.5	1.0	24	0
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)												
OCT., 1973 03...	1205	13	360	--	70	--	8.0	2.8	3.5	1.6	30	0
01472138 - FRENCH CREEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)												
OCT., 1973 04...	1050	16	180	--	20	--	11	4.7	5.2	1.4	44	0
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)												
OCT., 1973 04...	1115	17	160	--	10	--	13	4.6	6.5	1.8	44	0
01472157 - FRENCH CREEK NEAR PHOENIXVILLE, PA. (LAT 40 09 05 LONG 075 36 06)												
OCT., 1973 04...	0945	16	110	--	0	--	12	4.5	6.0	1.8	44	0
01472161 - FRENCH CREEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)												
OCT., 1973 04...	0835	11	--	120	--	140	24	9.0	14	2.9	64	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)											
OCT., 1973 03...	24	14	4.2	.7	.88	.00	.88	67	37	14	109
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)											
OCT., 1973 03...	28	15	6.2	.7	1.2	.00	1.2	77	42	14	125
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)											
OCT., 1973 03...	30	17	7.7	.7	1.7	.00	1.7	85	48	17	143
01472109 - STONY RUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)											
OCT., 1973 02...	56	23	18	.2	4.4	.00	4.4	145	74	18	253
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)											
OCT., 1973 02...	51	23	16	.3	3.8	.00	3.8	134	71	20	238
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)											
OCT., 1973 03...	20	6.4	2.7	.2	.23	.00	.24	43	24	4	66
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)											
OCT., 1973 03...	25	7.7	3.5	.6	.43	.00	.43	55	32	7	86
01472138 - FRENCH CREEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)											
OCT., 1973 04...	36	11	8.5	.3	.57	.00	.57	80	47	11	129
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)											
OCT., 1973 04...	36	12	8.3	.3	1.1	.00	1.1	85	51	15	139
01472157 - FRENCH CREEK NEAR PHOENIXVILLE, PA. (LAT 40 09 05 LONG 075 36 06)											
OCT., 1973 04...	36	12	7.5	.3	1.1	.00	1.1	82	48	12	136
01472161 - FRENCH CREEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)											
OCT., 1973 04...	52	46	16	.3	1.6	.00	1.6	155	97	44	267

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)											
OCT., 1973											
03...	7.2	2.9	--	1	0	0	1	10	0	2	20
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)											
OCT., 1973											
03...	7.6	1.4	--	1	0	0	0	0	0	2	10
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)											
OCT., 1973											
03...	7.3	3.0	--	1	0	0	0	0	0	0	10
01472109 - STONY HUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)											
OCT., 1973											
02...	7.7	2.2	--	--	1	0	0	0	2	1	20
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)											
OCT., 1973											
02...	7.8	1.6	--	1	0	<0	0	0	2	1	20
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)											
OCT., 1973											
03...	7.6	1.0	1	--	0	0	0	0	3	3	10
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)											
OCT., 1973											
03...	7.5	1.5	--	0	0	0	0	10	0	0	10
01472138 - FRENCH CHEEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)											
OCT., 1973											
04...	7.5	2.2	--	<1	0	0	0	10	2	0	10
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)											
OCT., 1973											
04...	7.4	2.8	--	0	0	0	3	10	1	0	10
01472157 - FRENCH CREEK NEAR PHOENIXVILLE, PA. (LAT 40 09 05 LONG 075 36 06)											
OCT., 1973											
04...	7.8	1.1	--	<1	0	0	0	0	1	0	10
01472161 - FRENCH CHEEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)											
OCT., 1973											
04...	7.9	1.3	3	--	0	0	0	0	7	8	20

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)												
OCT., 1973 02...	0815	19	660	--	70	--	17	5.9	6.5	2.0	50	0
01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)												
OCT., 1973 02...	0905	18	200	--	30	--	17	5.0	6.5	1.9	52	0
01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)												
OCT., 1973 01...	1225	17	280	--	40	--	17	5.5	6.7	2.1	49	0
01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)												
OCT., 1973 01...	1405	17	190	--	10	--	16	5.5	7.2	2.2	48	0
01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)												
OCT., 1973 12...	0905	6.5	--	30	--	60	49	17	28	3.1	167	0
01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)												
OCT., 1973 12...	0835	5.8	--	20	--	30	30	30	20	3.0	179	1
01475300 - DARBY CK AT WATERLOO MILLS NR DEVON, PA. (LAT 40 01 21 LONG 075 25 20)												
OCT., 1973 04...	1245	12	--	100	--	30	18	7.9	11	3.3	61	0
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)												
OCT., 1973 05...	0745	13	--	150	--	20	12	7.4	8.0	2.1	52	0
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)												
OCT., 1973 05...	0810	14	--	100	--	20	12	7.2	8.7	2.2	53	0
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)												
OCT., 1973 05...	0855	12	280	--	40	--	10	6.1	9.0	2.1	38	0
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)												
OCT., 1973 05...	0950	14	340	--	50	--	10	6.6	8.2	1.8	42	0

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)											
OCT., 1973 02...	41	11	17	.8	2.0	.00	2.0	104	67	26	200
01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)											
OCT., 1973 02...	43	13	12	.7	2.3	.00	2.3	100	63	20	190
01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)											
OCT., 1973 01...	40	15	14	.7	1.3	.00	1.3	102	65	25	176
01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)											
OCT., 1973 01...	39	16	14	.7	1.3	.00	1.3	102	63	23	176
01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)											
OCT., 1973 12...	137	39	47	.5	3.6	.00	3.6	273	190	55	520
01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)											
OCT., 1973 12...	148	33	30	.2	2.0	.00	2.0	241	200	50	504
01475300 - DARBY CR AT WATERLOO MILLS NR DEVON, PA. (LAT 40 01 21 LONG 075 25 20)											
OCT., 1973 04...	50	21	15	.3	2.6	.00	2.6	119	77	27	212
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)											
OCT., 1973 05...	43	11	11	.3	2.2	.00	2.2	91	60	18	162
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)											
OCT., 1973 05...	43	14	14	.3	1.8	.00	1.8	99	60	16	167
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)											
OCT., 1973 05...	31	12	14	.4	2.3	.00	2.3	84	50	19	154
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)											
OCT., 1973 05...	34	12	12	.3	2.2	.00	2.2	86	52	18	153

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)											
OCT., 1973 02...	7.6	2.0	--	<1	1	0	0	10	1	1	30
01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)											
OCT., 1973 02...	7.6	2.1	--	0	1	0	0	0	0	0	10
01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)											
OCT., 1973 01...	7.5	2.5	--	0	3	0	1	20	4	2	30
01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)											
OCT., 1973 01...	7.6	1.9	--	1	0	30	1	10	2	0	20
01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)											
OCT., 1973 12...	7.9	3.4	1	--	0	10	0	0	2	8	50
01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)											
OCT., 1973 12...	8.4	1.2	2	--	0	<10	0	0	2	4	20
01475300 - DARBY CR AT WATERLOO MILLS NR DEVON, PA. (LAT 40 01 21 LONG 075 25 20)											
OCT., 1973 04...	7.4	3.9	2	--	0	<10	0	0	2	2	10
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)											
OCT., 1973 05...	7.5	2.6	17	--	0	<10	0	0	2	2	10
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)											
OCT., 1973 05...	7.5	2.7	15	--	0	<10	0	0	2	2	20
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)											
OCT., 1973 05...	7.6	1.5	--	0	0	0	0	0	0	1	10
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)											
OCT., 1973 05...	7.3	3.4	--	0	0	0	0	0	1	0	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)												
OCT., 1973												
05...	1035	9.6	90	--	30	--	14	6.0	9.2	1.7	38	0
01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)												
OCT., 1973												
05...	1120	15	360	--	110	--	15	8.6	8.5	3.2	61	0
01476835 - CHESTER CREEK AT WESTTOWN SCHOOL, PA. (LAT 39 56 21 LONG 075 32 28)												
OCT., 1973												
05...	1155	17	460	--	140	--	17	7.8	11	3.9	58	0
01476840 - GOOSE CREEK NEAR WEST CHESTER, PA. (LAT 39 56 01 LONG 075 33 31)												
OCT., 1973												
05...	1225	23	1000	--	290	--	38	13	76	26	1	0
01478120 - WHITE CLAY CREEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)												
OCT., 1973												
08...	1040	14	200	--	20	--	26	12	7.5	2.7	98	0
01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)												
OCT., 1973												
08...	1145	15	170	--	30	--	12	6.2	8.4	3.0	41	0
01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)												
OCT., 1973												
08...	1245	13	90	--	20	--	9.0	3.9	6.5	2.8	25	0
01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)												
OCT., 1973												
08...	0955	15	120	--	60	--	21	10	9.5	3.6	81	0
01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)												
OCT., 1973												
08...	0910	16	110	--	50	--	21	9.6	12	4.5	75	0
01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)												
OCT., 1973												
10...	1145	12	290	--	50	--	13	5.8	8.0	2.6	46	0
01480629 - BUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)												
OCT., 1973												
10...	1050	5.8	--	120	--	40	17	6.3	9.0	2.6	43	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)											
OCT., 1973 05...	31	13	20	.4	4.0	.00	4.0	93	60	28	180
01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)											
OCT., 1973 05...	50	16	15	.3	2.1	.00	2.1	112	73	23	204
01476835 - CHESTER CREEK AT WESTTOWN SCHOOL, PA. (LAT 39 56 21 LONG 075 32 28)											
OCT., 1973 05...	48	21	15	.4	2.2	.00	2.2	122	75	27	216
01476840 - GOOSE CREEK NEAR WEST CHESTER, PA. (LAT 39 56 01 LONG 075 33 31)											
OCT., 1973 05...	1	94	110	.9	28	.00	28	382	150	150	812
01478120 - WHITE CLAY CREEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)											
OCT., 1973 08...	80	21	14	.4	3.8	.00	3.8	146	110	34	284
01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)											
OCT., 1973 08...	34	9.1	12	.3	4.4	.00	4.4	86	55	22	171
01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)											
OCT., 1973 08...	21	10	11	.4	2.8	.01	2.8	69	39	18	124
01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)											
OCT., 1973 08...	66	20	15	.4	--	--	3.7	134	94	27	257
01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)											
OCT., 1973 08...	62	27	17	.3	3.3	.01	3.3	144	92	30	261
01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)											
OCT., 1973 10...	38	13	12	.2	1.7	.00	1.7	89	56	19	157
01480629 - BUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)											
OCT., 1973 10...	35	16	16	.3	4.2	.00	4.2	94	68	33	190

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)											
OCT., 1973 05...	7.4	2.4	--	<1	0	0	6	10	1	0	10
01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)											
OCT., 1973 05...	7.3	4.9	--	1	0	0	5	10	1	0	10
01476835 - CHESTER CREEK AT WESTTOWN SCHOOL, PA. (LAT 39 56 21 LONG 075 32 28)											
OCT., 1973 05...	7.3	4.7	--	0	0	0	3	0	0	0	10
01476840 - GOOSE CREEK NEAR WEST CHESTER, PA. (LAT 39 56 01 LONG 075 33 31)											
OCT., 1973 05...	4.6	40	--	1	20	30	0	30	4	4	80
01478120 - WHITE CLAY CREEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)											
OCT., 1973 08...	7.9	2.0	--	0	1	0	0	0	0	0	20
01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)											
OCT., 1973 08...	7.2	4.1	--	2	0	0	3	0	0	0	10
01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)											
OCT., 1973 08...	7.1	3.2	--	0	0	0	4	0	0	0	10
01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)											
OCT., 1973 08...	7.4	5.2	--	<1	0	0	0	0	1	0	30
01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)											
OCT., 1973 08...	7.6	3.0	--	<1	0	0	0	10	2	1	20
01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)											
OCT., 1973 10...	7.6	1.8	--	<1	0	0	0	10	1	0	20
01480629 - BUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)											
OCT., 1973 10...	7.6	1.7	1	--	0	0	0	20	1	6	20

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)												
OCT., 1973												
10...	1030	7.2	--	40	--	20	10	4.4	4.8	1.9	28	0
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)												
OCT., 1973												
10...	0930	9.3	390	--	60	--	17	7.2	11	3.0	57	0
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)												
OCT., 1973												
11...	0915	11	--	200	--	200	17	6.8	6.5	3.5	56	0
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)												
OCT., 1973												
11...	1000	15	--	130	--	90	16	6.0	7.0	2.9	55	0
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)												
OCT., 1973												
11...	0800	22	--	50	--	10	15	4.0	7.5	1.6	51	0
01480700 - EAST BR BRANDYWINE CR NR DOWNINGTOWN, PA. (LAT 40 02 05 LONG 075 42 32)												
OCT., 1973												
10...	1220	15	140	--	20	--	14	5.1	7.5	2.2	43	0
01480903 - VALLEY CREEK AT HULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)												
OCT., 1973												
12...	0950	4.6	--	90	--	0	29	14	12	2.5	115	0
01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)												
OCT., 1973												
10...	0845	13	350	--	80	--	21	9.1	17	3.1	81	0
01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)												
OCT., 1973												
09...	0900	11	90	--	20	--	7.5	3.9	5.7	2.1	22	0
01494950 - ELK CREEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)												
OCT., 1973												
09...	0940	9.9	170	--	20	--	8.0	4.4	9.0	2.4	26	0

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)											
OCT., 1973 10...	23	6.8	9.7	.3	3.3	.00	3.3	59	43	20	120
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)											
OCT., 1973 10...	47	18	15	.4	3.1	.00	3.1	109	72	25	210
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)											
OCT., 1973 11...	46	11	11	.2	3.2	.00	3.2	95	70	25	175
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)											
OCT., 1973 11...	45	10	9.9	.4	3.0	.00	3.0	95	65	20	170
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)											
OCT., 1973 11...	42	7.4	8.1	.3	2.9	.00	2.9	91	54	12	145
01480700 - EAST BR BRANDYWINE CR NR DOWNINGTOWN, PA. (LAT 40 02 05 LONG 075 42 32)											
OCT., 1973 10...	35	13	13	.4	1.6	.01	1.8	91	56	21	163
01480903 - VALLEY CREEK AT MULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)											
OCT., 1973 12...	94	25	18	.2	2.7	.00	2.7	162	130	36	320
01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)											
OCT., 1973 10...	66	24	18	.3	2.3	.00	2.3	145	90	23	290
01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)											
OCT., 1973 09...	18	3.1	8.5	.2	3.6	.00	3.6	53	35	17	107
01494950 - ELK CREEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)											
OCT., 1973 09...	21	4.5	12	.3	3.9	.00	3.9	63	38	17	128

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)											
OCT., 1973 10...	7.6	1.1	<1	--	0	<10	0	0	1	2	10
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)											
OCT., 1973 10...	7.5	2.9	--	1	0	0	3	10	1	24	20
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)											
OCT., 1973 11...	7.8	1.4	1	--	0	0	0	0	1	0	10
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)											
OCT., 1973 11...	7.7	1.8	1	--	0	<10	0	0	1	1	10
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)											
OCT., 1973 11...	7.7	1.6	<1	--	0	<10	0	0	1	1	20
01480700 - EAST BR BRANDYWINE CR NR DOWNINGTOWN, PA. (LAT 40 02 05 LONG 075 42 32)											
OCT., 1973 10...	7.3	3.4	--	0	1	0	0	0	0	0	10
01480903 - VALLEY CREEK AT MULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)											
OCT., 1973 12...	8.0	1.8	1	--	0	0	0	0	1	0	0
01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)											
OCT., 1973 10...	7.2	8.2	--	2	0	0	5	10	2	0	20
01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)											
OCT., 1973 09...	7.1	2.8	--	1	0	0	0	0	0	0	10
01494950 - ELK CHEEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)											
OCT., 1973 09...	7.3	2.1	--	0	0	0	0	0	0	1	20

LAKES IN DELAWARE RIVER BASIN

411906075123500 PROMISED LAND LAKE.--Lat 41°19'06", long 75°12'35", Pike County, 6 mi (9.7 km) south of Tafton at point 300 ft (91 m) upstream from dam on East Branch Wallenpaupack Creek. Drainage area, 6.6 mi^2 (17.1 km^2). Surface area, 422 acres (1.71 km^2). Capacity at normal pool elevation of 1,727 ft (562.4 m), 2,348 acre-feet (2.90 hm^3). Mean flow-through-time, 101 days at 11.7 ft^3/s (0.33 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

411849075141200 LOWER LAKE.--Lat 41°18'49", long 75°14'12", Pike County, 12 mi (19.3 km) south of Hawley at point 200 ft (61 m) upstream from dam on East Branch Wallenpaupack Creek. Drainage area, 10.6 mi^2 (27.5 km^2). Surface area, 250 acres (1.01 km^2). Capacity at normal pool elevation of 1,710 ft (521.2 m), 1,083 acre-feet (1.34 hm^3). Mean flow-through-time, 32 days at 17 ft^3/s (0.48 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

412107075114300 EGYPT MEADOW LAKE.--Lat 41°21'07", long 75°11'43", Pike County, 3.5 mi (5.6 km) southwest of Blooming Grove at point 100 ft (30.4 m) upstream from dam on Egypt Creek. Drainage area, 2.7 mi^2 (7.0 km^2). Surface area, 60 acres (243,000 m^2). Capacity at normal pool elevation of 1,710 ft (521.2 m), 246 acre-feet (303,000 m^2). Mean flow-through-time, 25 days at 5 ft^3/s (0.14 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

412050075101700 BRUCE LAKE.--Lat 41°20'50", long 75°10'17", Pike County, 2.5 mi (4.0 km) southwest of Blooming Grove at point in middle of natural lake on Shohola Creek. Drainage area, 0.6 mi^2 (1.6 km^2). Surface area, 48 acres (194,000 m^2). Capacity at normal pool elevation of 1,738 ft (529 m), 347 acre-feet (428,000 m^3). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

410137075411400 SAND SPRING LAKE.--Lat 41°01'37", long 75°41'14", Carbon County, 20 mi (32.2 km) east of Hazleton at point 100 ft (30 m) upstream from dam on Sand Spring Run. Drainage area, 1.9 mi^2 (4.9 km^2). Surface area, 11.4 acres (46,000 m^2). Capacity at normal pool elevation of 1,499 ft (456.9 m), 55 acre-feet (67,800 m^3). Mean flow-through-time, 7.9 days at 3.5 ft^3/s (0.10 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

402809075111200 NOCKAMIXON LAKE.--Lat 40°28'09", long 75°11'12", Bucks County, 8 mi (12.9 km) east of Quakertown at point 500 ft (152 m) upstream from dam on Nockamixon Creek. Drainage area, 73.3 mi^2 (189.9 km^2). Surface area, 1,450 acres (5.87 km^2). Capacity at normal pool elevation of 395 ft (120.4 m), 40,000 acre-feet (49.3 hm^3). Mean flow-through-time, 196 days at 103 ft^3/s (2.92 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

400318075430300 MARSH CREEK LAKE.--Lat 40°03'18", long 75°43'03", Chester County, 3.4 mi (5.5 km) north of Downingtown at point 400 ft (122 m) upstream from dam on Marsh Creek. Drainage area, 20 mi^2 (51.8 km^2). Surface area, 100 acres (405,000 m^2). Capacity at normal pool elevation of 315 ft (96.0 m), 1,230 acre-feet (1.[illegible]2 hm^3). Mean flow-through-time, 23 days at 27 ft^3/s (0.76 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for water supply, recreation, and flood control.

DELAWARE RIVER BASIN

411906075123500 PROMISED LAND LAKE (LAT 41 19 06 LONG 075 12 35)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY 02...	1030	.4	40	0	3.5	.5	.5	.2	6	0	5

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 02...	7.7	.8	.2	.00	.05	.04	.10	.17	.27	.31	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 02...	.00	23	17	11	6	36	6.9	20.0	8	1.2	8.8

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
JULY 02...	.0	0	40	16	.0	.0	.0	.0	.0	.0	13

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY 02...	0	0	0	0	0	10	0	0	0	3	0

DELAWARE RIVER BASIN

411849075141200 LOWER LAKE (LAT 41 18 49 LONG 075 14 12)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
JULY 02...	1300	.2	140	0	3.3	.4	.7	.2	2	0	2

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JULY 02...	8.2	1.2	.2	.00	.01	.01	.15	.15	.30	.31	.02

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
JULY 02...	.00	21	16	10	8	34	6.9	22.0	7	.4

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JULY 02...	5.6	.0	0	18	6.4	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JULY 02...	.0	3	0	0	10	0	0	0	2	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

DELAWARE RIVER BASIN

412107075114300 EGYPT MEADOW LAKE (LAT 41 21 07 LONG 075 11 43)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY 01...	1500	.8	100	10	3.2	.3	.6	.2	4	0	3

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JULY 01...	8.8	1.1	.2	.32	.04	.36	.02	.01	34	17

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)
JULY 01...	9	6	29	5.5	23.0	50	20	11	.0	0

DATE	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)
JULY 01...	110	14	12	.0	.0	.0	.0	.0	8	0

DATE	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY 01...	0	0	0	0	10	0	0	0	0	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

DELAWARE RIVER BASIN

412050075101700 BRUCE LAKE (LAT 41 20 50 LONG 075 10 17)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
JULY 01...	1230	.1	120	70	2.0	.2	.4	.2	0	0	0

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JULY 01...	6.9	.6	.2	.00	.01	.01	.13	.15	.28	.29	.02

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 01...	.00	18	11	6	6	25	6.7	20.0	3	.0	6.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
JULY 01...	.0	0	62	13	.0	.0	.0	.0	.0	.0	0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JULY 01...	0	0	0	0	0	<10	0	0	2	3	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

DELAWARE RIVER BASIN

410137075411400 SAND SPRING LAKE (LAT 41 01 37 LONG 075 41 14)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG. 07...	1100	.0	140	160	2.6	.4	1.4	.7	2	2	7.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
AUG. 07...	2.5	.1	.30	.04	.03	.26	.30	.02	.00	18	16

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)
AUG. 07...	8	7	31	6.0	22.0	1	30	10.1	3.2	3.1	.0

DATE	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)
AUG. 07...	0	19	14	6.8	.8	.0	.0	.0	.0	0	0

DATE	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG. 07...	0	0	0	11	0	1	0	1	4	20

DELAWARE RIVER BASIN

402809075111200 NOCKAMIXON LAKE (LAT 40 28 09 LONG 075 11 12)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 30...	1230	2.3	90	60	14	5.7	8.0	2.0	68	56	21

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JULY 30...	10	.2	.03	.01	.04	.21	.00	.21	.25	.02

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TRANS-PAR-ENCY (SECCHI DISK) (IN)
JULY 30...	.01	102	97	58	3	175	7.7	25.0	6	54

DATE	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JULY 30...	10.0	2.2	11	4	<10	0	10	0	4	20

DELAWARE RIVER BASIN

400318075430300 MARSH CREEK LAKE (LAT 40 03 18 LONG 075 43 03)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JULY 10...	1130	3.7	170	30	12	4.4	9.1	2.4	43	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JULY 10...	35	15	17	.1	.24	.02	.26	.12	.41	.53

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JULY 10...	.79	.03	.03	101	85	48	13	205	8.0	29.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JULY 10...	7	.7	5.7	0	0	0	0	0	3	0

01502770 SUSQUEHANNA RIVER NEAR GREAT BEND, PA.

LOCATION.--Lat 41°57'48", long 75°44'33", Susquehanna County, State Highway 11 bridge north of Hallstead, 0.5 mi (0.8 km) south of Great Bend, and 6.2 mi (10.0 km) upstream from gaging station at Conklin, N.Y.

DRAINAGE AREA.--2,086 mi^2 (5,400 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1974.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01503000 Susquehanna River at Conklin, N.Y.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT. 23...	1800	274	--	--	--	--	--	--	--	--
NOV. 27...	1330	1200	--	--	--	--	--	--	--	--
AUG. 27...	1345	500	0	86	0	71	14	6.0	.23	.06
SEP. 25...	0930	2730	--	58	0	48	12	4.0	.32	.06

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
OCT. 23...	--	--	--	--	114	3	210	6.5	14.0	2
NOV. 27...	--	--	--	--	116	9	200	6.7	7.0	--
AUG. 27...	.50	.56	.06	.00	100	13	182	8.1	23.0	--
SEP. 25...	.47	.53	.06	.02	73	9	123	7.0	12.0	6

DATE	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 23...	11.6	--	.8	--	--	200	10	--	--
NOV. 27...	11.0	--	1.6	--	--	1800	290	--	--
AUG. 27...	8.6	11	--	1.1	--	--	410	33	3.9
SEP. 25...	9.8	15	--	9.3	5.5	--	1400	490	5.6

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)
OCT. 23...	1800	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 23...	.00	.00	.00	.00	.00	.0	.00	.00	.00

01516820 TIOGA RIVER AT LAMBS CREEK, PA.

LOCATION.--Lat 41°50'29", long 77°06'13", Tioga County, at bridge on Legislative Route 58044, 500 ft (152 m) upstream from Lambs Creek, and 2.7 mi (4.3 km) northwest of Mansfield.

DRAINAGE AREA.--186 mi^2 (482 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to September 1974.
Sediment records: September 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 445.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
SEP.									
06...	1100	216	0	0	0	106	7.5	1.6	.41

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.									
06...	.56	.97	.29	.11	265	4.5	22.0	11.5	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.											
09...	1430	73	--	0	0	0	134	8.5	.23	.05	.31
NOV.											
08...	0910	149	--	0	0	0	98	4.0	.29	.07	.17
DEC.											
13...	1145	392	--	0	0	0	76	2.5	.59	.14	.27
JAN.											
10...	1015	--	--	0	0	0	71	7.3	.80	.13	.16
FEB.											
13...	1315	--	120	1	0	1	82	6.5	.70	.13	.31
MAR.											
13...	1315	--	1200	0	0	0	61	4.5	.72	.14	.17
APR.											
02...	1130	1250	70	19	0	16	35	5.0	1.0	.05	.51
MAY											
01...	1215	285	--	1	0	1	66	5.6	.40	.12	.20
JUNE											
12...	1230	96	--	1	0	1	106	5.5	.57	.17	.23
JULY											
17...	1630	40	--	0	0	0	143	10	.23	.10	.14
AUG.											
14...	1245	29	--	0	0	0	256	8.0	.34	.18	.23
SEP.											
12...	1230	29	--	0	0	0	118	10	.50	.12	.10

01516820 TIOGA RIVER AT LAMBS CREEK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
09...	.36	.04	.04	42	34	349	4.1	15.5	9.8	.0
NOV.										
08...	.24	.03	.02	24	.5	223	4.6	3.0	12.4	.0
DEC.										
13...	.41	.10	.10	21	.4	208	4.8	1.5	13.1	.0
JAN.										
10...	.28	.03	.01	28	.6	250	4.6	.0	14.0	.0
FEB.										
13...	.44	.04	.01	22	.4	207	4.6	.5	--	40
MAR.										
13...	.31	.11	.10	22	.4	173	4.2	1.0	13.4	.0
APR.										
02...	.56	.20	.09	15	.3	141	5.9	3.0	12.8	38
MAY										
01...	.32	.04	.02	7.4	.2	172	5.1	14.0	9.9	13
JUNE										
1[illegible]...	.40	.03	.01	12	.2	223	4.6	18.5	9.4	40
JULY										
17...	.24	.02	.00	51	1.0	416	3.4	26.0	7.6	.0
AUG.										
14...	.41	.04	.01	78	1.6	570	3.5	26.0	7.4	.0
SEP.										
12...	.22	.03	.01	88	2.0	587	3.6	22.0	8.8	.0

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
MAY							
01...	1215	2300	2100	1600	1	1	0
JUNE							
12...	1230	20	1000	2700	2	0	10
JULY							
17...	1630	3500	1400	4500	1	1	0
AUG.							
14...	1245	12000	500	8400	0	1	<10
SEP.							
12...	1230	5500	1100	8000	1	2	10

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY							
01...	28	30	88	<.5	0	0	550
JUNE							
12...	45	20	3	<.5	1	1	360
JULY							
17...	74	40	3	<.5	1	0	640
AUG.							
14...	110	40	6	<.5	<2	0	1300
SEP.							
12...	140	50	7	<.5	3	1	1300

01517500 MILL CREEK NEAR TIOGA, PA.

LOCATION.--Lat 41°52'50", long 77°07'05", Tioga County, 2.5 mi (4.0 km) south of Tioga and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--76.8 mi^2 (199 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to September 1974.
Sediment records: September 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 445.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 05...	1645	6.3	87	2	73	23	7.8	.07	.16	.34

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 05...	.50	.01	.01	.0	.0	197	8.8	29.0	11.2	.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 11...	0915	10	100	0	82	14	10	.02	.03	.15
NOV. 07...	1535	25	68	--	56	18	7.0	.14	.08	.19
DEC. 13...	1035	113	30	0	25	20	2.5	.72	.06	.19
JAN. 09...	1450	--	47	0	39	20	5.5	1.0	.09	.28
FEB. 13...	1400	--	44	0	36	17	6.0	.70	.02	.24
MAR. 13...	1445	190	30	0	25	8.2	4.0	.45	.06	.21
APR. 02...	1330	473	31	0	25	19	4.5	.70	.02	.35
MAY 01...	1345	86	49	2	44	19	4.2	.10	.16	.29
JUNE 12...	1345	28	69	0	57	15	6.0	.54	.11	.31
JULY 17...	1545	6.5	76	6	72	17	6.4	.16	.05	.14
AUG. 14...	1400	6.9	82	4	74	12	7.0	.07	.09	.19
SEP. 12...	1350	7.2	82	2	71	16	8.2	.05	.07	.13

01517500 MILL CREEK NEAR TIOGA, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
11...	.18	.03	.00	--	--	214	7.8	12.5	10.1	2.5
NOV.										
07...	.27	.01	.00	.0	.0	166	8.5	4.5	13.0	.3
DEC.										
13...	.25	.03	.02	2.0	.0	132	6.6	1.5	13.6	12
JAN.										
09...	--	.01	.01	4.0	.1	143	6.4	.0	13.8	30
FEB.										
13...	.26	.01	.01	2.5	.0	129	7.6	2.0	13.8	1.8
MAR.										
13...	.27	.02	.01	5.0	.1	109	7.4	1.0	13.7	1.9
APR.										
02...	.37	.08	.02	2.5	.0	123	7.6	4.5	12.8	1.2
MAY										
01...	.45	.02	.01	.0	.0	137	8.4	16.0	10.6	.3
JUNE										
12...	.42	.04	.01	1.2	.0	152	8.0	19.5	9.5	1.1
JULY										
17...	.19	.01	.00	.0	.0	184	8.7	26.5	9.2	.3
AUG.										
14...	.28	.01	.00	.0	.0	185	8.6	27.5	9.6	.4
SEP.										
12...	.20	.01	.00	.0	.0	192	8.5	24.0	9.3	.4

01518000 TIOGA RIVER AT TIOGA, PA.

LOCATION.--Lat 41°54'30", long 77°07'47", Tioga County, 1 mi (1.6 km) upstream from gaging station on right bank, 1.8 mi (2.9 km) upstream from Crooked Creek, and 1 mi (1.6 km) south of Tioga.

DRAINAGE AREA.--282 mi^2 (730 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1971 (partial-record station), October 1971 to September 1972. September 1973 to September 1974.
Sediment records: September 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 446.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 06...	1000	197	1	0	1	130	10	.59	.29	.69

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 06...	.98	.09	.06	21	332	4.9	22.0	9.4	20

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 09...	1530	82	0	0	0	116	8.7	.16	.03	.18	.21
NOV. 06...	1145	190	0	0	0	78	3.0	.29	.12	.18	.30
DEC. 11...	1415	868	7	0	6	46	2.1	.63	.11	.23	.34
JAN. 08...	1125	E230	2	0	2	73	6.3	.70	.15	.18	.33
FEB. 13...	1435	E200	3	0	3	64	6.0	.80	.13	.26	.39
MAR. 13...	1600	699	16	0	13	44	5.0	.61	.12	.19	.31
APR. 02...	1445	1780	23	0	19	29	7.0	.90	.03	.15	.18
MAY 01...	1445	413	14	0	11	49	7.6	.40	.09	.23	.32
JUNE 12...	1445	133	14	0	11	59	5.0	.52	.17	.39	.56
JULY 17...	1515	65	0	0	0	127	7.6	.23	.06	.16	.22
AUG. 14...	1500	35	1	0	1	188	9.0	.32	.15	.15	.30
SEP. 12...	1445	30	1	0	1	117	11	.43	.22	.09	.31

01518000 TIOGA RIVER AT TIOGA, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT. 09...	.03	.02	25	--	294	4.9	16.5	9.8	100	.0
NOV. 06...	.03	.02	9.0	.2	194	5.3	4.0	12.9	98	.4
DEC. 11...	.06	.05	5.0	.1	145	5.7	2.5	12.8	94	22
JAN. 08...	.03	.01	24	.5	213	5.8	.0	11.4	78	5.1
FEB. 13...	.01	.01	9.0	.2	160	5.7	2.5	13.6	100	9.6
MAR. 13...	.05	.01	11	.2	152	5.5	2.0	13.4	97	81
APR. 02...	.15	.05	5.0	.1	141	6.8	7.0	12.6	103	5.8
MAY 01...	.05	.02	2.5	.1	166	6.7	16.0	9.4	95	4.5
JUNE 12...	.03	.01	1.2	.0	181	6.8	19.5	8.8	95	3.6
JULY 17...	.04	.02	22	.4	315	4.4	24.0	8.3	98	.0
AUG. 14...	.01	.01	24	.5	413	4.5	29.0	7.7	99	51
SEP. 12...	.01	.00	36	.7	407	4.3	25.0	8.2	97	80

DATE	TIME	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
MAY 01...	1445	1500	1700	1200	1	0	0
JUNE 12...	1445	10	790	1700	2	0	10
JULY 17...	1515	5900	380	5900	0	1	0
AUG. 14...	1500	4400	150	5200	0	1	0
SEP. 12...	1445	7400	310	5700	1	1	<10

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 01...	21	20	2	<.5	0	0	140
JUNE 12...	28	10	4	<.5	1	0	210
JULY 17...	92	50	3	<.5	<1	0	3100
AUG. 14...	72	30	4	<.5	<2	0	710
SEP. 12...	120	40	5	<.5	2	0	900

SUSQUEHANNA RIVER BASIN

01518400 CROOKED CREEK AT MIDDLEBURY CENTER, PA.

LOCATION.--Lat 41°50'40", long 77°16'48", Tioga County, 500 ft (152 m) upstream from Township Route 586 bridge at Middlebury Center, 9.1 mi (14.6 km) southwest of Tioga, and 12.9 mi (20.8 km) upstream from mouth.

DRAINAGE AREA.--74.2 mi^2 (192 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 446.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
SEP. 05...	0915	24	89	0	72	17	8.9	.29	.22

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 05...	.32	.54	.04	.02	206	7.5	22.5	11.4	4.5

01518400 CROOKED CREEK AT MIDDLEBURY CENTER, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 10...	0930	16	105	0	86	15	12	.14	.05	.12
NOV. 07...	0820	39	74	0	61	20	8.0	.29	.06	.18
DEC. 12...	0845	146	44	0	36	24	2.5	.68	.09	.18
JAN. 09...	1545	--	55	0	45	22	6.2	1.2	.07	.28
FEB. 14...	1715	--	50	0	41	18	7.0	.90	.07	.30
MAR. 15...	0900	69	38	0	31	14	5.5	.70	.05	.18
APR. 04...	0915	453	25	0	20	17	3.0	.50	.03	.50
MAY 03...	0915	50	57	0	47	20	5.5	.20	.11	.20
JUNE 14...	0845	8.0	84	0	69	19	7.5	.50	.23	.22
JULY 18...	1525	6.9	76	4	69	24	7.4	.14	.13	.19
AUG. 16...	0830	3.3	92	0	75	17	9.0	.11	.13	.23

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 10...	.17	.03	.01	--	--	225	7.2	14.5	9.8	11
NOV. 07...	.24	.02	.02	2.0	.0	179	7.2	3.5	12.2	7.5
DEC. 12...	.27	.11	.08	2.0	.0	141	7.1	2.0	13.0	5.6
JAN. 09...	--	.02	.01	5.0	.1	165	6.2	.0	13.8	56
FEB. 14...	.37	.03	.01	4.0	.1	145	6.6	.5	14.5	20
MAR. 15...	.23	.01	.01	5.0	.1	130	7.4	.5	13.4	2.4
APR. 04...	.53	.09	.04	1.2	.0	93	7.2	9.5	10.8	2.5
MAY 03...	.31	.02	.01	4.0	.1	151	7.2	9.5	10.9	5.8
JUNE 14...	.45	.36	.35	1.2	.0	185	7.3	14.0	--	6.7
JULY 18...	.32	.03	.01	.0	.0	190	8.5	25.0	9.4	.4
AUG. 16...	.36	.08	.06	2.5	.0	221	7.5	18.0	7.0	4.7

01518500 CROOKED CREEK AT TIOGA, PA.

LOCATION.--Lat 41°54'08", long 77°08'55", Tioga County, at gaging station on right bank 30 ft (9 m) upstream from Penn Central Railroad bridge, 1 mi (1.6 km) southwest of Tioga, 1 mi (1.6 km) upstream from Elkhorn Creek, and 3 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971 (partial-record station), October 1971 to September 1972, September 1973 to September 1974.
Sediment records: September 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 447.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 05...	1045	47	73	0	59	22	7.0	.79	.11	.33

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)
SEP. 05...	.44	.14	.08	104	7.0	23.5	8.2	95	12

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 09...	1615	35	89	0	73	15	10	.05	.09	.39	.48	.13
NOV. 06...	1300	61	63	0	52	18	5.0	.27	.06	.31	.37	.18
DEC. 11...	1300	292	52	0	43	20	1.9	.50	.07	.22	.29	.17
JAN. 08...	1225	E66	50	0	41	20	4.5	.70	.09	.22	--	.03
FEB. 13...	1710	E68	48	0	39	17	5.0	.70	.05	.19	.24	.00
MAR. 13...	1800	89	32	0	27	16	3.5	.32	.07	.18	.25	.03
APR. 02...	1625	811	34	0	28	19	4.0	.80	.12	.66	.78	.13
MAY 01...	1545	132	54	0	44	20	4.0	.20	.10	.24	.34	.06
JUNE 12...	1550	26	81	0	66	17	5.0	.41	.09	.30	.39	.06
JULY 17...	1415	18	86	0	71	19	5.8	.05	.09	.21	.30	.03
AUG. 14...	1550	11	97	0	80	17	7.0	.02	.09	.24	.33	.07
SEP. 12...	1620	10	91	0	75	18	8.0	.07	.07	.16	.23	.07

01518500 CROOKED CREEK AT TIOGA, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
09...	.10	--	--	197	6.9	16.5	9.3	94	18	--	--
NOV.											
06...	.11	2.0	.0	153	7.9	5.0	11.6	91	1.3	--	--
DEC.											
11...	.07	2.5	.0	134	6.8	2.5	12.6	92	13	1500	140
JAN.											
08...	.02	5.0	.1	146	6.9	.0	13.0	89	10	90	67
FEB.											
13...	.00	4.0	.1	132	6.4	2.0	13.2	96	31	--	--
MAR.											
13...	.01	1.2	.0	111	7.1	2.5	13.6	100	4.1	--	--
APR.											
02...	.10	2.5	.0	117	7.8	6.0	12.4	99	.9	--	--
MAY											
01...	.02	1.2	.0	144	7.6	16.0	10.8	108	2.2	--	--
JUNE											
12...	.02	1.2	.0	168	7.5	19.5	8.7	94	4.1	--	--
JULY											
17...	.02	4.0	.1	190	7.7	23.0	8.6	99	2.7	--	--
AUG.											
14...	.03	2.5	.0	197	7.7	27.0	8.2	101	3.1	--	--
SEP.											
12...	.04	3.0	.1	205	7.8	24.0	8.6	101	2.3	--	--

01518700 TIOGA RIVER AT TIOGA JUNCTION, PA.

LOCATION.--Lat 41°57'27", long 77°06'58", Tioga County, at bridge on Township Route 773, 0.4 mi (0.6 km) west of intersection of U.S. Highway 15 and State Highway 328, and 3.5 mi (5.6 km) downstream from Crooked Creek.

DRAINAGE AREA.--446 mi^2 (1,160 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1972, September 1973 to September 1974. Sediment records: September 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 447. Records of discharge are computed from 01518000 Tioga River at Tioga and 01518500 Crooked Creek at Tioga.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP.										
05...	1540	75	18	0	14	29	9.1	.41	.12	.13

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)
SEP.									
05...	.25	.08	.02	276	6.4	27.0	10.2	126	11

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.											
09...	1700	131	19	0	16	82	9.1	.18	.07	.25	.32
NOV.											
06...	1350	281	13	0	11	63	5.0	.34	.11	.31	.42
DEC.											
11...	1500	1300	18	0	15	40	2.1	.63	.05	.27	.32
JAN.											
08...	1335	E332	10	0	8	40	5.1	.90	.12	.17	--
FEB.											
13...	1620	E300	16	0	13	49	5.5	.70	.11	.23	.34
MAR.											
13...	1715	883	9	0	8	35	4.5	.45	.09	.16	.25
APR.											
02...	1545	2900	24	0	20	25	3.0	1.5	.14	1.3	1.4
MAY											
01...	1650	610	26	0	21	45	7.0	.40	.24	.29	.53
JUNE											
12...	1730	178	24	0	20	51	6.0	.61	.08	.21	.29
JULY											
17...	1300	93	24	0	20	87	7.0	.23	.15	.12	.27
AUG.											
14...	1645	51	16	0	13	123	9.0	.16	.11	.16	.27
SEP.											
13...	0900	45	10	0	8	118	10	.34	.09	.05	.14

01518700 TIOGA RIVER AT TIOGA JUNCTION, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PER-CENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
09...	.06	.02	--	--	252	7.2	16.5	9.8	100	1.9
NOV.										
06...	.06	.02	1.0	.0	185	6.8	5.0	12.1	95	3.3
DEC.										
11...	.17	.09	5.0	.1	139	7.0	2.5	12.4	91	2.9
JAN.										
08...	.03	.01	9.0	.2	194	5.9	.0	13.8	94	20
FEB.										
13...	.03	.02	6.2	.1	165	7.2	1.5	13.6	97	1.4
MAR.										
13...	.02	.01	5.0	.1	133	6.5	2.0	13.6	99	4.7
APR.										
02...	.49	.33	2.5	.0	120	7.6	7.0	12.2	100	1.0
MAY										
01...	.06	.03	2.5	.0	160	6.9	16.5	9.8	100	5.2
JUNE										
12...	.02	.01	2.5	.0	171	6.9	20.0	9.2	100	4.8
JULY										
17...	.01	.00	3.0	.1	255	6.6	22.0	8.4	96	9.6
AUG.										
14...	.01	.00	1.2	.0	323	7.0	27.0	8.0	99	2.6
SEP.										
13...	.01	.00	4.0	.1	328	6.4	21.5	9.0	101	6.4

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
MAY							
01...	1650	2600	3500	930	2	0	0
JUNE							
12...	1730	0	330	1200	1	0	10
JULY							
17...	1300	150	40	1300	<1	1	0
AUG.							
14...	1645	70	20	3000	0	1	0
SEP.							
13...	0900	190	120	3900	<1	1	<10

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY							
01...	13	20	14	<.5	0	0	80
JUNE							
12...	16	10	2	<.5	1	1	120
JULY							
17...	18	20	0	<.5	1	0	130
AUG.							
14...	34	0	1	<.5	0	0	340
SEP.							
13...	75	10	2	<.5	<2	1	580

01518850 COWANESQUE RIVER AT WESTFIELD, PA.

LOCATION.--Lat 41°54'56", long 77°34'18", Tioga County, at Township Route 336 bridge, 1.7 mi (2.7 km) west of Westfield, and 0.6 mi (1.0 km) upstream of North Fork.

DRAINAGE AREA.--53.0 mi^2 (137 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 448.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
SEP. 04...	1330	6.8	71	0	58	23	19	.18	.21

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 04...	.32	.53	.06	.04	204	6.9	27.0	11.0	14

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 10...	1625	7.7	68	2	58	14	10	.07	.03	.19
NOV. 07...	1000	28	43	0	35	18	5.0	.43	.06	.24
DEC. 12...	1045	63	31	0	25	18	2.0	.48	.08	.19
JAN. 09...	1230	--	31	0	25	16	4.0	.70	.10	.20
FEB. 14...	0945	--	30	0	25	16	5.5	.80	.04	.36
MAR. 14...	0945	77	24	0	20	14	2.5	.45	.05	.23
APR. 03...	0830	272	18	0	15	17	2.0	1.0	.03	.23
MAY 02...	0900	51	37	0	30	18	3.2	.10	.12	.19
JUNE 13...	0920	8.0	60	0	49	12	4.0	.63	.04	.18
JULY 18...	0920	7.4	56	0	46	15	4.7	.09	.07	.22
AUG. 15...	0930	3.1	70	0	57	13	6.0	.05	.13	.19

01518850 COWANESQUE RIVER AT WESTFIELD, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	.22	.02	.01	.0	.0	162	8.5	17.5	10.3	.4
NOV.										
07...	.30	.01	.01	5.0	.1	130	7.3	--	--	3.4
DEC.										
12...	.27	.01	.01	1.2	.1	114	6.9	1.5	13.4	6.2
JAN.										
09...	--	.01	.01	5.0	.1	113	6.4	.0	14.2	20
FEB.										
14...	.40	.01	.01	2.5	.0	109	6.9	.5	13.8	6.0
MAR.										
14...	.28	.01	.01	2.5	.0	95	6.8	.5	13.6	6.1
APR.										
03...	.26	.05	.04	2.5	.0	88	6.4	2.5	12.7	11
MAY										
02...	.31	.02	.01	1.2	.0	107	7.4	7.5	12.6	2.4
JUNE										
13...	.22	.01	.00	1.2	.0	138	7.4	14.5	10.2	3.8
JULY										
18...	.29	.01	.00	.0	.0	143	7.4	19.0	9.4	3.6
AUG.										
15...	.32	.01	.00	2.5	.0	154	7.5	18.0	9.5	3.5

01518860 MILL CREEK AT WESTFIELD, PA.

LOCATION.--Lat 41°55'15", long 77°32'07", Tioga County, at bridge on State Highway 49, 400 ft (122 m) upstream from mouth.

DRAINAGE AREA.--13.0 mi^2 (33.7 km^2).

PERIOD OF RECORD.--Chemical analyses, September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 448.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP.										
04...	1445	5.0	83	4	71	27	15	.20	.21	.44

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.										
04...	.65	.11	.09	.0	.0	234	8.7	29.0	11.2	.3

01518860 MILL CREEK AT WESTFIELD, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.										
10...	1540	4.2	76	11	72	17	14	.09	.03	.25
NOV.										
07...	1045	9.5	64	0	52	20	10	.36	.14	.31
DEC.										
12...	1150	18	52	0	43	24	10	.61	.10	.28
JAN.										
09...	1155	--	63	0	52	24	23	.80	.27	.33
FEB.										
14...	1020	--	59	0	48	21	12	.80	.23	.48
MAR.										
14...	1035	23	44	0	36	17	8.0	.77	.17	.36
APR.										
03...	0940	59	34	0	25	20	5.0	1.0	.09	.41
MAY										
02...	1000	9.5	69	3	62	25	12	.30	.23	.39
JUNE										
13...	1030	1.2	124	6	112	32	36	1.0	.17	.34
JULY										
18...	0955	2.0	91	9	90	20	20	.50	.13	.40
AUG.										
15...	1030	2.0	88	9	87	19	26	.63	.21	.42

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	.28	.03	.02	.0	.0	213	9.4	17.5	11.0	.1
NOV.										
07...	.45	.08	.06	1.0	.0	173	7.5	5.0	12.0	3.2
DEC.										
12...	.38	.05	.04	.5	.0	170	6.7	2.5	13.2	17
JAN.										
09...	--	.06	.06	2.5	.0	226	6.3	.5	14.0	51
FEB.										
14...	.71	.12	.10	7.4	.2	177	6.2	.5	13.8	60
MAR.										
14...	.53	.10	.06	2.5	.0	147	7.3	.5	13.6	3.5
APR.										
03...	.50	.14	.05	2.5	.0	129	6.5	3.0	12.8	17
MAY										
02...	.62	.12	.08	.0	.0	198	8.5	9.0	13.4	.4
JUNE										
13...	.51	.19	.18	.0	.0	368	8.2	15.5	10.0	1.4
JULY										
18...	.53	.09	.07	.0	.0	254	8.6	20.0	10.4	.4
AUG.										
15...	.63	.09	.07	.0	.0	275	8.5	19.0	11.0	.5

SUSQUEHANNA RIVER BASIN

01518870 COWANESQUE RIVER AT COWANESQUE, PA.

LOCATION.--Lat 41°55'34", long 77°31'20", Tioga County, at bridge on State Highway 49, 0.8 mi (1.2 km) downstream from Mill Creek, and 1 mi (1.6 km) northeast of Westfield.

DRAINAGE AREA.--91.0 mi^2 (236 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 449.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 04...	1545	15	103	0	84	54	56	.29	.35	.49

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 04...	.84	.14	.08	.0	.0	395	8.6	20.5	9.2	.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 10...	1445	16	108	3	91	29	59	.11	.02	.19
NOV. 07...	1140	50	55	0	45	20	12	.50	.18	.25
DEC. 12...	1250	117	42	0	34	20	9.0	.57	.11	.19
JAN. 09...	1115	--	49	0	40	26	25	.80	.52	.52
FEB. 14...	1045	--	38	0	31	19	12	.70	.18	.46
MAR. 14...	1130	170	35	0	29	17	11	.57	.24	.36
APR. 03...	1025	540	27	0	22	18	4.8	1.8	.15	.48
MAY 02...	1100	76	46	0	38	26	23	.10	.34	.64
JUNE 13...	1130	12	82	4	74	23	30	.45	.16	.23
JULY 18...	1030	12	102	0	84	40	78	.18	.59	.72
AUG. 15...	1120	7.6	130	0	107	44	93	.28	.59	.81

01518870 COWANESQUE RIVER AT COWANESQUE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	.21	.01	.00	.0	.0	309	8.7	17.0	8.7	.4
NOV.										
07...	.43	.03	.02	2.0	.0	170	7.5	5.0	12.3	2.8
DEC.										
12...	.30	.03	.01	.4	.0	148	6.8	2.5	13.6	11
JAN.										
09...	--	.04	.03	10	.2	228	6.4	.0	13.6	31
FEB.										
14...	.64	.05	.03	3.7	.1	148	6.6	.5	14.0	15
MAR.										
14...	.60	.05	.03	5.0	.1	145	7.2	1.0	13.5	3.5
APR.										
03...	.63	.14	.04	1.2	.0	114	6.5	3.0	12.5	14
MAY										
02...	.48	.04	.02	2.5	.0	212	8.3	9.0	12.4	.4
JUNE										
13...	.34	.03	.02	.0	.0	267	8.5	17.0	11.4	.5
JULY										
18...	1.3	.10	.04	4.0	.1	469	8.0	21.0	7.6	1.6
AUG.										
15...	1.4	.12	.07	5.0	.1	572	7.8	20.0	8.4	3.3

01519000 TROUPS CREEK AT KNOXVILLE, PA.

LOCATION.--Lat 41°58'05", long 77°27'08", Tioga County, on State Highway 249, 1 mi (1.6 km) north of junction with State Highway 49, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--66.5 mi^2 (172 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 449.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 04...	1645	6.5	93	2	78	30	6.6	.20	.05	.61

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 04...	.57	.01	.01	.0	.0	216	8.8	30.0	9.7	.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 10...	1320	5.3	116	1	96	22	12	.66	.02	.32
NOV. 07...	1310	22	90	0	74	27	8.0	1.2	.09	.68
DEC. 13...	0900	44	65	0	53	26	8.0	.90	.04	.19
JAN. 09...	1025	--	63	0	52	26	6.5	1.8	.10	.22
FEB. 14...	1125	--	49	0	40	20	7.5	.90	.02	.42
MAR. 14...	1745	109	44	0	36	16	5.0	1.4	.06	.33
APR. 03...	1145	312	32	0	24	20	4.0	1.7	.14	.54
MAY 02...	1230	39	66	4	61	23	5.2	.20	.08	.26
JUNE 13...	1230	5.6	92	5	84	20	7.5	.50	.06	.21
JULY 18...	1100	3.7	102	2	87	19	7.6	.34	.06	.28
AUG. 15...	1240	2.6	88	5	81	20	9.0	.23	.07	.19

01519000 TROUPS CREEK AT KNOXVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	.34	.01	.01	.0	.0	239	8.2	16.0	10.7	1.2
NOV.										
07...	.77	.01	.00	2.0	.0	222	7.6	5.0	12.2	3.6
DEC.										
13...	.23	.02	.00	.7	.0	191	7.2	.5	14.3	6.6
JAN.										
09...	--	.02	.02	10	.2	194	6.5	.0	14.4	32
FEB.										
14...	.44	.07	.02	3.7	.1	140	6.2	.5	14.2	49
MAR.										
14...	.39	.11	.04	5.0	.1	140	7.4	3.5	12.8	2.8
APR.										
03...	.60	.11	.05	1.2	.0	124	6.1	4.5	12.5	41
MAY										
02...	.34	.02	.00	.0	.0	169	8.6	13.0	12.0	.3
JUNE										
13...	.27	.01	.00	.0	.0	213	8.0	21.0	--	1.6
JULY										
18...	.34	.01	.00	.0	.0	232	8.7	22.0	10.0	.3
AUG.										
15...	.26	.01	.00	.0	.0	219	8.5	24.0	10.6	.5

01519500 COWANESQUE RIVER AT NELSON, PA.

LOCATION.--Lat 41°58'41", long 77°14'15", Tioga County, at Legislative Route 58050 bridge, 6.8 mi (10.9 km) southwest of Lawrenceville, and 8.3 mi (13.4 km) upstream from mouth.

DRAINAGE AREA.--266 mi^2 (689 km^2).

PERIOD OF RECORD.--Chemical analyses, September 1973 to August 1974 (discontinued).
Sediment records: September 1973 to August 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 450.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
SEP. 05...	1140	55	100	0	41	25	20	.61	.20	.63

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 05...	.83	.12	.08	.0	.0	264	8.0	25.0	10.8	1.6

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 10...	1100	48	116	0	95	28	32	.14	.31	.50
NOV. 07...	1415	129	77	0	63	24	16	.59	.09	.35
DEC. 12...	1615	317	56	0	46	25	16	.61	.03	.20
JAN. 09...	0920	--	64	0	52	27	13	1.9	.17	.35
FEB. 14...	1330	--	52	0	43	20	12	.80	.14	.48
MAR. 14...	1615	319	44	0	36	20	11	.99	.12	.32
APR. 03...	1400	1430	34	0	25	19	5.5	1.3	.10	.48
MAY 02...	1630	190	68	9	71	22	13	.10	.09	.33
JUNE 13...	1415	32	85	9	85	31	24	.36	.31	.56
JULY 18...	1415	29	78	12	84	33	34	.02	.08	.34
AUG. 15...	1355	17	90	5	82	38	47	.14	.19	.47

01519500 COWANESQUE RIVER AT NELSON, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	.81	.08	.04	--	--	327	7.4	16.0	9.6	7.4
NOV.										
07...	.44	.05	.03	1.0	.0	220	7.8	4.5	12.6	2.0
DEC.										
12...	.23	.06	.04	1.0	.0	179	7.2	2.0	13.6	5.7
JAN.										
09...	--	.05	.04	10	.2	224	6.8	.0	15.2	16
FEB.										
14...	.62	.06	.04	2.5	.0	166	6.9	.5	14.1	10
MAR.										
14...	.44	.03	.03	2.5	.0	171	7.2	4.0	13.2	4.4
APR.										
03...	.58	.10	.05	2.5	.0	133	6.4	7.0	12.4	22
MAY										
02...	.42	.03	.01	.0	.0	195	8.8	15.0	11.4	.2
JUNE										
13...	.87	.04	.02	.0	.0	276	8.5	22.5	--	.5
JULY										
18...	.42	.02	.01	.0	.0	310	9.3	27.5	11.4	.1
AUG.										
15...	.66	.04	.02	.0	.0	364	8.7	26.0	10.8	.3

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.

LOCATION.--Lat 41°59'04", long 77°09'06", Tioga County, at gaging station on left bank, 0.8 mi (1.3 km) downstream from Cook Creek, 1.8 mi (2.9 km) southwest of Lawrenceville, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--298 mi^2 (772 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972, September 1973 to September 1974.
Water temperatures: May 1972 to September 1974.
Sediment records: September 1973 to September 1974 (partial-record station).

EXTREMES.
Water temperatures: Maximum, 24.5°C Aug. 23; minimum, freezing point on many days during February and March.

Period of record:
Water temperatures: Maximum, 28.0°C Aug. 26, 1972; minimum, freezing point on many days each year.

REMARKS.--Miscellaneous sediment data for this station on page 450.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
SEP. 05...	1340	70	87	0	71	23	19	.45	.27	.56	.83

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)
SEP. 05...	.20	.10	.0	.0	241	8.1	27.0	11.2	138	1.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 09...	1740	63	91	12	85	26	35	.05	.01	.16	.17	.02
NOV. 06...	1510	148	77	--	63	25	17	.54	.12	.29	.41	.04
DEC. 12...	1510	287	47	0	39	25	16	.63	.03	.18	.21	.06
JAN. 08...	1545	E170	59	0	48	26	14	1.0	.13	.38	--	.04
FEB. 14...	1430	E170	50	0	41	20	12	.80	.08	.36	.44	.08
MAR. 14...	1450	317	52	0	43	20	9.2	.84	.10	.28	.38	.04
APR. 03...	1625	1400	30	0	25	20	5.0	1.0	.12	.47	.59	.10
MAY 02...	1530	215	64	6	62	21	12	.10	.08	.27	.35	.03
JUNE 13...	1535	E42	78	12	84	25	24	.27	.13	.31	.44	.02
JULY 18...	1340	29	92	2	79	31	29	.07	.06	.27	.33	.02
AUG. 15...	1500	17	96	2	82	32	38	.09	.09	.30	.39	.03
SEP. 13...	0930	30	100	0	82	33	39	.09	.08	.24	.32	.02

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.											
09...	.02	.0	.0	295	9.0	18.0	10.6	112	.2	--	--
NOV.											
06...	.02	1.0	.0	223	7.8	5.0	12.1	95	2.0	--	--
DEC.											
12...	.04	.7	.0	176	6.8	2.5	13.6	100	12	470	60
JAN.											
08...	.03	5.0	.1	205	6.4	.0	14.2	97	38	250	30
FEB.											
14...	.04	3.7	.1	164	6.9	.5	14.4	100	10	--	--
MAR.											
14...	.02	5.0	.1	158	7.3	3.5	13.9	104	4.2	--	--
APR.											
03...	.05	2.5	.0	124	6.3	6.5	12.2	99	24	--	--
MAY											
02...	.01	.0	.0	189	9.1	15.5	13.2	131	.1	--	--
JUNE											
13...	.01	.0	.0	274	8.7	24.0	--	--	.3	--	--
JULY											
18...	.01	.0	.0	300	8.8	27.0	9.2	114	.2	--	--
AUG.											
15...	.01	.0	.0	337	8.5	28.0	9.2	116	.5	--	--
SEP.											
13...	.01	5.0	.1	347	7.8	21.0	9.0	100	2.5	--	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	12.5	14.5	9.5	9.0	9.0	---	---	---	---	---	---
2	15.5	14.5	15.0	9.0	8.5	8.5	---	---	---	---	---	---
3	17.5	15.0	16.5	8.5	8.5	8.5	---	---	---	---	---	---
4	17.5	16.5	17.0	8.5	8.0	8.5	---	---	---	---	---	---
5	17.5	16.0	17.0	8.0	7.5	7.5	---	---	---	---	---	---
6	15.5	14.0	15.0	7.5	6.5	6.5	---	---	---	---	---	---
7	15.5	13.5	14.5	6.0	5.5	6.0	---	---	---	---	---	---
8	16.5	14.0	15.0	5.5	5.0	5.0	---	---	---	---	---	---
9	16.5	15.5	16.0	5.0	5.0	5.0	---	---	---	---	---	---
10	16.5	15.5	16.0	5.0	4.5	4.5	---	---	---	---	---	---
11	15.5	14.5	15.5	4.5	4.5	4.5	---	---	---	---	---	---
12	15.5	14.5	15.0	4.5	4.5	4.5	---	---	---	---	---	---
13	16.0	15.0	15.5	4.5	4.5	4.5	---	---	---	---	---	---
14	16.0	14.0	14.5	5.0	4.5	5.0	---	---	---	---	---	---
15	14.0	12.5	13.0	---	---	---	---	---	---	---	---	---
16	13.5	11.5	12.0	---	---	---	---	---	---	---	---	---
17	11.5	10.5	11.0	---	---	---	---	---	---	---	---	---
18	11.0	10.0	10.5	---	---	---	---	---	---	---	---	---
19	11.0	9.0	10.5	---	---	---	---	---	---	---	---	---
20	11.5	11.0	11.0	---	---	---	---	---	---	---	---	---
21	12.0	11.0	12.0	---	---	---	---	---	---	---	---	---
22	12.0	10.5	11.5	---	---	---	---	---	---	---	---	---
23	13.5	10.0	11.5	---	---	---	---	---	---	---	---	---
24	13.0	9.0	11.5	---	---	---	---	---	---	---	---	---
25	11.5	9.0	11.0	---	---	---	---	---	---	---	---	---
26	11.0	9.0	10.0	---	---	---	---	---	---	2.5	0.5	1.5
27	10.0	9.5	10.0	---	---	---	---	---	---	5.0	2.5	4.0
28	10.0	9.0	9.0	---	---	---	---	---	---	5.0	4.5	5.0
29	9.5	8.5	9.0	---	---	---	---	---	---	5.0	4.5	4.5
30	10.0	9.0	9.5	---	---	---	---	---	---	4.5	4.0	4.5
31	9.5	9.0	9.0	---	---	---	---	---	---	4.0	2.5	3.5
MONTH	17.5	8.5	13.0	---	---	---	---	---	---	---	---	---

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	1.0	1.5	2.0	2.0	2.0	5.5	1.5	3.5	14.5	13.0	14.0
2	1.0	0.0	0.0	2.0	2.0	2.0	6.0	3.5	4.5	13.0	10.5	11.5
3	0.0	0.0	0.0	5.0	2.5	3.5	6.5	3.0	4.5	13.0	10.5	11.5
4	1.5	0.0	0.0	6.0	5.0	5.5	10.0	7.0	8.0	12.5	10.0	11.0
5	0.0	0.0	0.0	7.0	6.5	7.0	10.0	7.5	9.0	11.0	9.0	10.0
6	0.0	0.0	0.0	7.0	5.0	5.5	7.0	5.0	6.0	9.5	9.5	9.5
7	0.0	0.0	0.0	7.5	5.5	6.5	6.5	3.5	5.0	9.5	9.0	9.0
8	0.0	0.0	0.0	7.5	5.5	6.5	6.5	4.0	5.5	---	---	---
9	1.5	0.0	0.0	5.0	4.0	4.5	3.5	2.0	2.5	---	---	---
10	1.5	0.0	0.5	6.0	5.0	5.5	5.0	2.0	3.0	---	---	---
11	0.0	0.0	0.0	6.0	4.0	5.0	6.5	4.0	5.0	---	---	---
12	0.0	0.0	0.0	5.0	4.5	4.5	6.5	5.0	6.0	---	---	---
13	0.0	0.0	0.0	4.5	3.0	3.5	9.0	6.5	7.5	---	---	---
14	0.5	0.0	0.0	4.5	2.5	3.5	10.5	8.5	9.0	---	---	---
15	0.0	0.0	0.0	4.5	3.0	3.5	10.0	7.0	8.5	---	---	---
16	0.0	0.0	0.0	5.0	4.0	4.5	8.0	6.0	7.0	---	---	---
17	0.0	0.0	0.0	5.0	3.0	4.0	9.0	7.0	8.0	---	---	---
18	0.0	0.0	0.0	4.5	2.5	3.5	9.5	8.5	9.0	---	---	---
19	0.0	0.0	0.0	5.0	4.5	4.5	10.0	8.5	9.5	---	---	---
20	0.0	0.0	0.0	6.5	4.0	5.0	10.0	8.0	9.0	---	---	---
21	1.0	0.0	0.0	6.5	4.5	5.5	11.5	8.5	10.0	---	---	---
22	1.5	0.0	1.0	4.5	3.5	4.0	11.5	11.0	11.5	---	---	---
23	1.0	0.5	0.5	6.5	2.0	4.0	11.5	9.0	11.0	---	---	---
24	1.5	0.0	0.5	5.5	2.5	4.5	9.0	7.0	7.5	---	---	---
25	1.0	0.5	0.5	3.5	0.0	2.0	10.5	5.5	8.0	---	---	---
26	0.5	0.5	0.5	4.5	1.0	2.5	13.0	9.0	11.0	---	---	---
27	1.5	0.5	1.0	5.0	1.5	3.0	15.5	9.0	12.5	---	---	---
28	2.0	1.0	1.5	5.5	3.5	4.5	13.5	11.0	12.0	---	---	---
29	---	---	---	4.5	3.5	4.0	12.0	11.0	11.5	---	---	---
30	---	---	---	3.5	1.5	2.5	12.5	11.0	11.5	---	---	---
31	---	---	---	2.0	0.0	1.0	---	---	---	---	---	---
MONTH	3.0	0.0	0.5	7.5	0.0	4.0	15.5	1.5	8.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	21.5	20.5	21.0
2	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5
3	---	---	---	---	---	---	---	---	---	21.0	16.0	18.0
4	---	---	---	---	---	---	---	---	---	17.5	15.0	16.0
5	---	---	---	---	---	---	---	---	---	18.5	15.5	17.0
6	---	---	---	---	---	---	---	---	---	18.0	16.5	17.5
7	---	---	---	---	---	---	---	---	---	19.5	17.0	18.5
8	---	---	---	---	---	---	---	---	---	20.5	18.0	19.5
9	---	---	---	---	---	---	---	---	---	20.5	18.5	19.5
10	---	---	---	---	---	---	---	---	---	20.5	18.5	19.5
11	---	---	---	---	---	---	---	---	---	21.5	19.0	20.0
12	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
13	---	---	---	---	---	---	---	---	---	22.0	21.0	21.5
14	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5
15	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0
16	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0
17	---	---	---	---	---	---	---	---	---	18.5	17.5	18.0
18	---	---	---	---	---	---	---	---	---	18.5	18.0	18.0
19	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
20	---	---	---	---	---	---	---	---	---	19.5	18.5	19.0
21	---	---	---	---	---	---	---	---	---	19.5	15.5	18.0
22	---	---	---	---	---	---	---	---	---	15.5	14.0	15.0
23	---	---	---	---	---	---	24.5	22.5	23.5	14.5	13.0	13.5
24	---	---	---	---	---	---	23.5	22.0	23.0	15.0	13.0	14.0
25	---	---	---	---	---	---	23.5	20.5	21.5	14.0	13.5	14.0
26	---	---	---	---	---	---	23.5	20.5	22.0	15.5	13.5	14.5
27	---	---	---	---	---	---	23.0	21.5	22.5	17.0	14.0	16.0
28	---	---	---	---	---	---	22.5	21.0	21.5	18.0	16.5	17.0
29	---	---	---	---	---	---	21.0	20.0	20.5	18.0	17.0	17.5
30	---	---	---	---	---	---	22.5	21.0	21.5	17.0	16.0	16.5
31	---	---	---	---	---	---	22.0	20.5	21.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	22.0	13.0	18.0

01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'50", long 77°08'00", Steuben County, 800 ft (244 m) upstream from gaging station on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi (10 km) upstream from Canisteo River.

DRAINAGE AREA.--771 mi^2 (2,000 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1964 to October 1965 (partial-record station), September 1973 to September 1974.
Water temperatures: August to September 1974.
Sediment records: August to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 405 micromhos Aug. 29; minimum daily, 177 micromhos Sept. 23.
Water temperatures: Maximum daily, 25.0°C Aug. 7, 14, 18; minimum daily, 10.0°C Sept. 25.

Period of record:
Specific conductance: Maximum daily, 405 micromhos Aug. 29, 1974; minimum daily, 177 micromhos Sept. 23, 1974.
Water temperatures: Maximum daily, 25.0°C Aug. 7, 14, 18, 1974; minimum daily, 10.0°C Sept. 25, 1974.

REMARKS.--Sediment data for this station on page 395. No daily records available October through July.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
SEP.									
05...	1445	178	61	0	49	23	14	.50	.21

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.									
05...	.23	.44	.09	.06	256	7.5	27.5	10.0	3.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.											
09...	1825	162	48	0	39	61	16	.08	.04	.16	.20
NOV.											
06...	1600	405	38	0	31	49	8.5	.34	.16	.25	.41
DEC.											
11...	1550	1630	24	0	20	35	6.8	.66	.04	.23	.27
JAN.											
08...	1450	440	32	0	26	46	15	1.0	.13	.21	--
FEB.											
14...	1530	E500	35	0	29	31	10	.70	.20	.35	.55
MAR.											
14...	1400	E1160	24	0	19	28	5.4	.77	.09	.18	.27
APR.											
03...	1710	3260	24	0	18	23	4.0	.70	.16	.45	.61
MAY											
02...	1430	604	38	0	31	39	7.4	.20	.08	.20	.28
JUNE											
13...	1430	172	44	0	36	56	10	.36	.13	.22	.35
JULY											
18...	1245	119	36	0	30	73	12	.09	.07	.15	.22
AUG.											
15...	1355	63	42	0	34	92	17	.16	.16	.22	.38
SEP.											
13...	1500	83	44	0	36	84	20	.18	.09	.16	.25

01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
09...	.03	.02	--	--	268	6.8	17.0	10.2	105	12
NOV.										
06...	.05	.02	2.0	.0	182	7.0	5.0	11.6	91	6.1
DEC.										
11...	.07	.05	5.0	.1	148	6.7	2.5	12.7	93	7.7
JAN.										
08...	.03	.01	8.7	.2	200	6.2	.0	13.8	94	32
FEB.										
14...	.05	.03	3.7	.1	153	6.7	.5	14.0	97	11
MAR.										
14...	.02	.02	5.0	.1	143	6.7	2.0	13.4	97	7.7
APR.										
03...	.10	.03	1.2	.0	118	6.2	6.5	12.2	99	24
MAY										
02...	.03	.01	1.2	.0	172	7.4	14.0	10.7	103	2.4
JUNE										
13...	.02	.01	1.2	.0	216	7.2	20.0	--	--	4.4
JULY										
18...	.01	.00	2.5	.1	269	7.2	24.0	9.0	106	3.6
AUG.										
15...	.02	.00	2.5	.0	328	7.4	25.0	9.2	110	2.7
SEP.										
13...	.01	.00	1.0	.0	342	7.4	24.0	8.4	99	2.8

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
MAY							
02...	1430	700	490	570	1	0	0
JUNE							
13...	1430	0	180	890	1	0	<10
JULY							
18...	1245	280	0	2300	1	1	0
AUG.							
15...	1555	80	70	1200	0	0	0
SEP.							
13...	1500	80	150	1500	1	0	<10

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY							
02...	9	20	14	<.5	0	0	130
JUNE							
13...	9	10	1	<.5	<1	0	60
JULY							
18...	38	20	1	<.5	<1	0	310
AUG.							
15...	13	0	0	<.5	0	0	100
SEP.							
13...	20	10	2	<.5	2	0	200

01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	277	327
2	---	---	---	---	---	---	---	---	---	---	---	304
3	---	---	---	---	---	---	---	---	---	---	323	270
4	---	---	---	---	---	---	---	---	---	---	310	184
5	---	---	---	---	---	---	---	---	---	---	319	220
6	---	---	---	---	---	---	---	---	---	---	287	245
7	---	---	---	---	---	---	---	---	---	---	293	268
8	---	---	---	---	---	---	---	---	---	---	280	284
9	---	---	---	---	---	---	---	---	---	---	298	309
10	---	---	---	---	---	---	---	---	---	---	294	316
11	---	---	---	---	---	---	---	---	---	---	305	329
12	---	---	---	---	---	---	---	---	---	---	328	333
13	---	---	---	---	---	---	---	---	---	---	309	342
14	---	---	---	---	---	---	---	---	---	---	330	339
15	---	---	---	---	---	---	---	---	---	---	318	311
16	---	---	---	---	---	---	---	---	---	---	335	295
17	---	---	---	---	---	---	---	---	---	---	---	308
18	---	---	---	---	---	---	---	---	---	---	366	301
19	---	---	---	---	---	---	---	---	---	---	389	331
20	---	---	---	---	---	---	---	---	---	---	375	337
21	---	---	---	---	---	---	---	---	---	---	381	328
22	---	---	---	---	---	---	---	---	---	---	392	229
23	---	---	---	---	---	---	---	---	---	---	379	177
24	---	---	---	---	---	---	---	---	---	---	383	225
25	---	---	---	---	---	---	---	---	---	---	361	243
26	---	---	---	---	---	---	---	---	---	---	379	268
27	---	---	---	---	---	---	---	---	---	---	378	285
28	---	---	---	---	---	---	---	---	---	---	391	295
29	---	---	---	---	---	---	---	---	---	---	405	304
30	---	---	---	---	---	---	---	---	---	---	378	302
31	---	---	---	---	---	---	---	---	---	---	357	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	22.5	20.5
2	---	---	---	---	---	---	---	---	---	---	---	21.0
3	---	---	---	---	---	---	---	---	---	---	22.5	17.5
4	---	---	---	---	---	---	---	---	---	---	23.5	15.0
5	---	---	---	---	---	---	---	---	---	---	21.0	15.5
6	---	---	---	---	---	---	---	---	---	---	21.5	16.5
7	---	---	---	---	---	---	---	---	---	---	25.0	16.0
8	---	---	---	---	---	---	---	---	---	---	23.5	20.0
9	---	---	---	---	---	---	---	---	---	---	22.0	20.0
10	---	---	---	---	---	---	---	---	---	---	22.5	20.0
11	---	---	---	---	---	---	---	---	---	---	22.5	21.0
12	---	---	---	---	---	---	---	---	---	---	22.5	21.5
13	---	---	---	---	---	---	---	---	---	---	23.5	23.0
14	---	---	---	---	---	---	---	---	---	---	25.0	20.0
15	---	---	---	---	---	---	---	---	---	---	24.0	18.0
16	---	---	---	---	---	---	---	---	---	---	24.0	18.0
17	---	---	---	---	---	---	---	---	---	---	---	18.0
18	---	---	---	---	---	---	---	---	---	---	25.0	17.5
19	---	---	---	---	---	---	---	---	---	---	24.0	17.0
20	---	---	---	---	---	---	---	---	---	---	23.5	18.5
21	---	---	---	---	---	---	---	---	---	---	24.5	18.0
22	---	---	---	---	---	---	---	---	---	---	24.5	13.0
23	---	---	---	---	---	---	---	---	---	---	24.5	11.0
24	---	---	---	---	---	---	---	---	---	---	23.5	10.0
25	---	---	---	---	---	---	---	---	---	---	21.5	---
26	---	---	---	---	---	---	---	---	---	---	23.0	11.0
27	---	---	---	---	---	---	---	---	---	---	24.5	13.0
28	---	---	---	---	---	---	---	---	---	---	23.0	16.0
29	---	---	---	---	---	---	---	---	---	---	20.0	18.0
30	---	---	---	---	---	---	---	---	---	---	20.0	14.5
31	---	---	---	---	---	---	---	---	---	---	22.0	---

01537700 SUSQUEHANNA RIVER NEAR HUNLOCK CREEK, PA.

LOCATION.--Lat 41°11'19", long 76°05'13", Luzerne County, at bridge to State Hospital Retreat, 1.6 mi (2.6 km) southwest of Hunlock Creek.

DRAINAGE AREA.--10,140 mi^2 (26,300 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1974.
Sediment records: October 1973 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 451. Composite samples taken as part of the USGS-EPA surveillance network. Records of discharge are given for 01536500 Susquehanna River at Wilkes-Barre.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.										
23...	1400	2060	--	5100	1400	--	--	--	--	--
NOV.										
28...	1045	8830	--	4400	430	--	--	--	--	--
DEC.										
27...	1030	52100	--	2800	210	.80	--	.11	.75	.86
JAN.										
24...	1310	38400	1100	2100	300	.95	1.0	.14	.47	.61
FEB.										
14...	1245	20100	400	4300	480	1.4	1.4	.33	.68	1.0
27...	1230	21700	500	2000	200	1.0	1.0	.16	.46	.62
MAR.										
07...	1345	42200	1800	4000	830	1.1	1.1	.15	.70	.85
28...	1245	16700	500	3400	420	.90	.90	.16	.37	.53
APR.										
10...	1230	39200	700	2300	210	--	.65	.15	.23	.38
25...	1300	17000	600	2700	340	--	.84	.20	.18	.38
MAY										
07...	1315	9900	300	2500	370	--	.65	.00	.52	.52
21...	1210	16200	900	2700	190	--	.60	.07	.40	.47
JUNE										
06...	1230	5770	0	2700	490	--	.41	.06	.51	.57
20...	1245	5600	10	2500	480	--	.63	.10	.62	.72
JULY										
02...	1030	15200	1000	3700	340	--	.89	.15	.73	.88
25...	1415	2890	70	3100	970	--	.25	.46	.48	.94
AUG.										
08...	1315	2980	110	2900	660	--	.15	.46	.51	.97
22...	1300	1720	40	3200	1100	--	.45	.47	.10	.57
SEP.										
05...	1330	8700	390	3400	460	--	.45	.35	.41	.76
19...	1300	4050	220	3400	480	--	.40	.33	.87	1.2

01537700 SUSQUEHANNA RIVER NEAR HUNLOCK CREEK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.										
23...	--	--	--	--	14	10	.2	545	6.2	14.0
NOV.										
28...	--	--	--	182	45	10	.2	270	6.4	10.0
DEC.										
27...	--	.16	.06	110	60	5.0	.1	155	6.5	3.0
JAN.										
24...	1.6	.16	.03	134	97	--	--	190	7.4	2.0
FEB.										
14...	2.4	.18	.08	165	53	--	--	225	7.3	.0
27...	1.6	.05	--	90	28	--	--	180	6.7	1.0
MAR.										
07...	1.9	.11	--	95	113	--	--	160	7.4	7.0
28...	1.4	.06	--	152	41	--	--	190	6.8	4.5
APR.										
10...	1.0	.06	--	162	40	--	--	170	6.5	5.5
25...	1.2	.05	--	131	23	--	--	219	6.9	10.0
MAY										
07...	1.2	.06	--	165	9	--	--	278	7.4	12.0
21...	1.1	.09	--	131	45	--	--	200	7.0	20.0
JUNE										
06...	.98	.08	--	177	31	--	--	285	6.9	23.0
20...	1.4	.11	--	180	34	--	--	310	7.1	23.0
JULY										
02...	1.8	.18	--	133	78	--	--	220	7.1	22.0
25...	1.2	.09	--	264	16	--	--	438	7.2	22.5
AUG.										
08...	1.1	.15	--	259	16	--	--	380	7.6	25.0
22...	1.0	.12	--	303	21	--	--	480	7.0	25.0
SEP.										
05...	1.2	.16	--	177	57	--	--	250	6.9	18.0
19...	1.6	.12	--	207	25	--	--	340	7.3	20.5

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
23...	20	9.0	--	1.8	--	--	5300	560	--
NOV.									
28...	--	9.6	--	1.6	--	--	40000	2800	--
DEC.									
27...	30	13.4	--	1.2	--	--	32000	800	3.0
JAN.									
24...	25	13.6	142	2.6	2.6	--	--	4000	3.5
FEB.									
14...	25	12.6	16	2.8	1.1	--	--	530	3.0
27...	20	13.6	74	3.2	.8	--	--	250	2.5
MAR.									
07...	50	12.8	15	2.0	1.6	--	--	590	5.0
28...	15	11.2	80	.8	.4	--	--	140	3.5
APR.									
10...	20	12.2	12	.6	.9	1.5	--	240	3.0
25...	8	11.4	10	.6	.0	26	--	110	--
MAY									
07...	9	10.8	11	2.4	26	8.7	--	2500	2.2
21...	20	9.0	15	1.6	9.1	17	--	390	.9
JUNE									
06...	8	9.6	16	2.3	14	25	--	1600	3.4
20...	7	8.8	19	2.6	18	36	--	880	5.5
JULY									
02...	30	7.8	30	4.2	18	33	--	7900	9.0
25...	20	6.8	21	2.6	22	2.6	--	7000	7.4
AUG.									
08...	20	10.0	22	5.6	110	6.0	--	3800	5.4
22...	30	7.8	22	3.4	32	4.4	--	3700	3.5
SEP.									
05...	20	8.0	28	3.6	20	5.6	--	4300	9.4
19...	20	9.8	17	3.8	69	7.0	--	2500	--

01537700 SUSQUEHANNA RIVER NEAR HUNLOCK CREEK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
23...	--	--	--	--	--	--	--	--	--
NOV.									
28...	--	--	--	--	--	--	--	--	--
DEC.									
27...	--	0	0	--	0	--	9	--	--
JAN.									
24...	--	4	0	0	--	--	12	1	60
FEB.									
14...	--	1	0	0	--	--	5	1	100
27...	--	1	0	<10	--	--	0	0	10
MAR.									
07...	--	--	0	0	--	--	6	1	30
28...	--	3	1	<10	--	0	5	0	2
APR.									
10...	--	<1	0	<10	--	--	1	0	20
25...	--	<1	0	10	--	--	1	0	70
MAY									
07...	--	<1	0	0	--	--	3	0	10
21...	--	3	0	20	--	--	3	1	220
JUNE									
06...	--	1	2	10	--	--	2	0	20
20...	--	2	0	10	--	--	2	1	90
JULY									
02...	--	3	0	10	--	--	12	0	20
25...	0	1	0	0	--	--	4	0	10
AUG.									
08...	0	2	0	<10	--	--	3	1	40
22...	--	3	0	20	--	--	2	0	40
SEP.									
05...	0	2	0	<10	--	--	15	1	20
19...	3	2	0	<10	--	--	5	1	0

DATE	TIME	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
DEC.										
27...	1030	--	--	--	--	--	--	--	--	25
MAR.										
07...	1345	--	15	--	3.3	--	4.5	--	1.4	33
JUNE										
20...	1245	33	--	9.6	--	9.5	--	1.8	--	62
SEP.										
19...	1300	--	--	--	--	--	--	--	--	67

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CYANIDE (CN) (MG/L)
DEC.										
27...	--	21	37	--	.2	--	50	29	13	.00
MAR.										
07...	0	27	21	7.6	--	.02	51	24	2.1	--
JUNE										
20...	0	51	61	14	--	--	--	--	7.9	--
SEP.										
19...	0	55	71	15	--	--	--	--	5.4	--

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
DEC.									
27...	1030	84	120	2.7	7.0	3.3	5.0	2.6	4.0

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.

LOCATION.--Lat 41°01'53", long 76°25'13", Columbia County, on right bank at upstream end of culvert on State Highway 487 at Light Street.

DRAINAGE AREA.--1.72 mi² (4.45 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to May 1974 (discontinued).
Sediment records: October 1971 to May 1974 (discontinued).

EXTREMES.--1973-74:
Turbidity: Maximum daily, 1,200 JTU Dec. 9; minimum daily, 2 JTU Oct. 1.

Period of record:
Turbidity: Maximum daily, 5,400 JTU June 22, 1972; minimum daily, 2 JTU on many days.

REMARKS.--Sediment data for this station on page 397. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

TURBIDITY (JTU), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	10	7	6	8	8	140	20	---	---	---	---
2	10	10	6	6	7	7	35	7	---	---	---	---
3	5	8	6	8	7	6	10	15	---	---	---	---
4	210	8	6	6	7	6	70	6	---	---	---	---
5	10	7	100	5	10	8	60	5	---	---	---	---
6	5	8	50	5	8	8	8	6	---	---	---	---
7	3	8	6	6	7	6	7	6	---	---	---	---
8	3	8	5	4	7	320	15	6	---	---	---	---
9	35	8	1200	4	7	1000	110	35	---	---	---	---
10	20	10	15	6	7	30	8	7	---	---	---	---
11	10	8	8	10	6	10	7	6	---	---	---	---
12	10	8	5	8	6	10	7	500	---	---	---	---
13	8	8	8	8	8	8	6	15	---	---	---	---
14	10	10	7	8	6	7	7	6	---	---	---	---
15	8	170	6	8	7	6	7	6	---	---	---	---
16	8	15	5	40	5	100	7	6	---	---	---	---
17	15	10	3	15	5	10	7	220	---	---	---	---
18	10	10	4	6	7	6	7	10	---	---	---	---
19	10	10	4	10	10	6	10	6	---	---	---	---
20	10	10	400	8	6	5	7	6	---	---	---	---
21	5	10	150	210	6	550	6	6	---	---	---	---
22	5	10	15	30	600	10	6	180	---	---	---	---
23	8	10	10	15	15	7	7	15	---	---	---	---
24	8	100	10	15	6	6	6	7	---	---	---	---
25	10	85	8	15	6	5	6	8	---	---	---	---
26	6	15	85	10	7	5	6	6	---	---	---	---
27	6	10	130	15	6	5	6	6	---	---	---	---
28	8	30	75	440	5	5	6	6	---	---	---	---
29	100	10	8	15	---	5	6	5	---	---	---	---
30	30	7	6	8	---	65	7	5	---	---	---	---
31	10	---	6	8	---	90	---	20	---	---	---	---

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.

LOCATION.--Lat 41°01'55", long 76°25'39", Columbia County, on left bank at upstream end of culvert on Papermill Road at Light Street.

DRAINAGE AREA.--1.99 mi^2 (5.15 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to May 1974 (discontinued).
Sediment records: October 1971 to May 1974 (discontinued).

EXTREMES.--1973-74:
Turbidity: Maximum daily, 1,700 JTU Dec. 9, 20; minimum daily, 3 JTU on several days.

Period of record:
Turbidity: Maximum daily, 4,700 JTU Mar. 17, 1973; minimum daily, 2 JTU on many days.

REMARKS.--Sediment data for this station on page 399. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	3	5	8	8	5	120	25	---	---	---	---
2	4	4	4	6	7	5	40	6	---	---	---	---
3	3	4	4	10	5	4	6	20	---	---	---	---
4	480	4	4	5	5	3	80	7	---	---	---	---
5	40	4	190	5	8	7	75	6	---	---	---	---
6	5	3	55	4	7	5	15	6	---	---	---	---
7	4	3	8	4	5	4	9	6	---	---	---	---
8	4	4	6	5	5	330	20	6	---	---	---	---
9	70	4	1700	4	5	800	120	25	---	---	---	---
10	8	3	15	6	6	120	7	8	---	---	---	---
11	5	4	8	10	7	8	7	6	---	---	---	---
12	5	4	5	6	7	7	6	550	---	---	---	---
13	4	4	10	8	7	6	5	15	---	---	---	---
14	8	5	10	7	6	6	7	5	---	---	---	---
15	4	320	8	7	7	6	8	4	---	---	---	---
16	5	10	7	45	3	110	7	3	---	---	---	---
17	5	5	4	10	4	10	7	260	---	---	---	---
18	4	5	10	6	5	6	6	8	---	---	---	---
19	4	5	5	10	10	5	8	5	---	---	---	---
20	4	5	1700	8	7	4	6	4	---	---	---	---
21	3	5	900	350	6	490	6	3	---	---	---	---
22	3	5	10	50	650	10	7	110	---	---	---	---
23	4	5	10	15	15	7	6	20	---	---	---	---
24	5	180	8	15	8	6	6	6	---	---	---	---
25	3	150	6	15	7	5	6	4	---	---	---	---
26	3	15	340	10	7	5	6	4	---	---	---	---
27	3	10	150	5	5	7	5	3	---	---	---	---
28	4	30	120	650	4	6	5	3	---	---	---	---
29	240	8	8	25	---	5	4	3	---	---	---	---
30	30	5	7	8	---	65	8	3	---	---	---	---
31	4	---	7	8	---	95	---	15	---	---	---	---

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.
(National Stream-Quality Accounting Network)

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, at gaging station at Mill Street Bridge on State Highway 54 at Danville, 0.8 mi (1.3 km) upstream from Mahoning Creek.

DRAINAGE AREA.--11,200 mi^2 (29,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1945 to June 1953, October 1956 to June 1973, March to September 1974.
Water temperatures: October 1945 to June 1953, October 1956 to September 1970.
Sediment records: October 1961 to September 1962 (partial-record station), October 1963 to September 1964 (partial-record station), October 1965 to September 1966 (partial-record station), April to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 444 micromhos Aug. 26; minimum daily, 124 micromhos Apr. 6.

Period of record:
Specific conductance (1963-72, 1974): Maximum daily, 1,030 micromhos Sept. 26, 29, 30, 1963; minimum daily, 85 micromhos June 16, 1969.

REMARKS.--Sediment data for this station on page 401. Operated as part of the USGS-EPA surveillance network. No sediment records available October through March.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JAN.												
24...	1115	40400	900	3600	300	.95	1.0	.16	.44	.60	1.6	.15
FEB.												
14...	1100	12700	300	2000	570	1.3	1.3	.53	.74	1.3	2.6	.07
27...	1100	27000	900	2400	240	1.0	1.0	.15	.51	.66	1.7	.06
MAR.												
07...	1145	44400	2000	4600	310	.95	.97	.14	.61	.75	1.7	.11
20...	1050	19400	300	2800	440	.90	.90	.15	.40	.55	1.4	.06
APR.												
10...	1100	40200	900	2400	60	--	.07	.14	.23	.37	.44	.06
25...	1115	17900	700	2400	350	--	.83	.17	.21	.38	1.2	.08
MAY												
07...	1115	11400	500	2300	350	--	.64	.00	.43	.43	1.1	.06
21...	1000	19900	500	1900	230	--	.54	.08	.31	.39	.93	.06
JUNE												
06...	1030	7200	10	1400	370	--	.37	.04	.54	.58	.95	.05
20...	1100	7960	10	2700	480	--	.53	.12	.75	.87	1.4	.11
JULY												
02...	1300	21200	640	5400	530	--	.67	.07	1.0	1.1	1.8	.22
25...	1210	3370	170	4300	210	--	.12	.13	.50	.63	.75	.04
AUG.												
08...	1115	3660	520	920	380	--	.03	.38	.06	.44	.47	.09
22...	1100	2060	290	520	270	--	.22	.15	.25	.40	.62	.05
SEP.												
05...	1105	14000	810	4000	650	--	.61	.27	.54	.81	1.4	.15
19...	1100	5800	400	1900	430	--	.52	.16	.44	.60	1.1	.08

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)
JAN.											
24...	.03	137	68	170	7.2	1.5	20	13.6	127	1.2	2.1
FEB.											
14...	.05	163	13	260	7.1	1.0	10	13.8	14	.6	.3
27...	--	103	41	170	6.8	1.0	30	14.0	88	1.2	.7
MAR.											
07...	--	100	122	165	7.4	8.5	45	11.8	17	1.2	--
20...	--	157	24	184	7.2	4.5	15	12.5	32	.8	.5
APR.											
10...	--	97	42	160	6.9	5.5	20	12.0	9	.6	3.5
25...	--	133	27	211	6.9	10.0	10	10.6	11	.8	.8
MAY											
07...	--	165	14	230	6.8	10.0	6	11.8	11	2.8	39
21...	--	123	36	180	7.0	20.0	9	10.0	14	1.8	9.7
JUNE											
06...	--	165	16	280	6.9	22.0	4	8.2	16	3.4	20
20...	--	182	49	310	7.0	23.0	10	10.0	23	3.6	23
JULY											
02...	--	186	76	380	7.4	22.5	20	8.4	24	3.2	13
25...	--	215	7	364	8.1	22.0	5	9.8	17	2.8	250
AUG.											
08...	--	240	13	360	8.7	24.0	8	10.4	22	5.6	62
22...	--	254	10	410	7.9	25.0	6	9.2	28	2.2	28
SEP.											
05...	--	158	79	230	6.7	18.0	30	7.8	27	2.8	36
19...	--	196	21	320	7.3	19.0	8	10.4	15	3.0	39

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN.											
24...	--	1900	4.0	--	1	0	0	--	7	1	40
FEB.											
14...	--	130	.0	--	0	1	0	--	3	0	70
27...	--	300	1.0	--	1	0	<10	--	0	0	10
MAR.											
07...	--	450	1.0	--	--	0	0	--	8	0	160
28...	--	63	5.0	--	1	1	<10	10	2	0	30
APR.											
10...	7.8	320	3.0	--	1	0	10	--	5	0	60
25...	40	91	--	--	2	0	10	--	3	0	70
MAY											
07...	14	1600	2.9	--	2	0	<10	--	2	0	20
21...	18	270	3.4	--	2	0	10	--	2	1	30
JUNE											
06...	40	1100	3.9	--	0	1	10	--	1	0	120
20...	46	180	3.3	--	1	0	10	--	4	1	100
JULY											
02...	22	1300	5.7	--	1	0	10	--	14	0	40
25...	3.0	700	7.2	0	1	0	<10	--	1	0	10
AUG.											
08...	5.4	2800	6.4	0	1	0	0	--	0	0	20
22...	3.2	2200	--	0	5	1	<10	--	2	0	20
SEP.											
05...	3.2	6900	--	0	2	0	10	--	13	1	50
19...	8.4	590	--	2	2	0	0	--	3	0	20

DATE	TIME	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MAR.									
07...	1145	--	16	--	3.9	--	5.0	--	1.5
JUNE									
20...	1100	31	--	7.0	--	10	--	1.5	--
SEP.									
19...	1100	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAR.									
07...	35	0	29	25	9.1	.02	56	27	2.2
JUNE									
20...	67	0	55	58	15	--	--	--	11
SEP.									
19...	42	0	34	81	14	--	--	--	3.4

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
DEC.									
27...	1615	89	46	1.9	2.4	2.6	2.3	2.1	1.8

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	236	262	256	248	306	353
2	---	---	---	---	---	---	206	245	245	264	315	330
3	---	---	---	---	---	---	192	229	239	216	302	247
4	---	---	---	---	---	---	135	243	246	192	289	253
5	---	---	---	---	---	---	126	254	248	227	284	232
6	---	---	---	---	---	---	124	260	256	236	292	229
7	---	---	---	---	---	---	130	258	270	222	300	242
8	---	---	---	---	---	---	138	259	277	216	311	267
9	---	---	---	---	---	---	154	260	282	199	317	272
10	---	---	---	---	---	---	155	265	285	212	---	280
11	---	---	---	---	---	---	167	258	253	218	277	287
12	---	---	---	---	---	---	166	245	295	225	341	300
13	---	---	---	---	---	---	164	230	261	240	384	298
14	---	---	---	---	---	---	161	180	302	255	362	284
15	---	---	---	---	---	---	149	162	315	250	376	306
16	---	---	---	---	---	---	137	152	309	285	389	306
17	---	---	---	---	---	---	143	157	299	293	400	302
18	---	---	---	---	---	---	145	---	306	288	363	311
19	---	---	---	---	---	---	157	166	308	308	409	332
20	---	---	---	---	---	---	170	181	302	315	378	323
21	---	---	---	---	---	---	---	178	293	321	381	329
22	---	---	---	---	---	---	193	185	293	276	405	341
23	---	---	---	---	---	---	197	196	314	---	417	336
24	---	---	---	---	---	---	215	200	311	338	417	319
25	---	---	---	---	---	---	210	205	296	303	439	273
26	---	---	---	---	---	---	234	210	305	369	444	272
27	---	---	---	---	---	---	236	219	307	367	434	304
28	---	---	---	---	---	---	244	230	300	337	417	291
29	---	---	---	---	---	---	249	241	307	322	380	280
30	---	---	---	---	---	---	255	236	307	286	365	265
31	---	---	---	---	---	---	---	252	---	321	328	---
MONTH	---	---	---	---	---	---	179	221	286	272	361	292

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.

LOCATION.--Lat 41°19'28", long 77°45'03", Clinton County, 0.2 mi (0.3 km) downstream from gaging station at Twelfth Street at Renovo, 0.8 mi (1.3 km) upstream from Paddy Run. Automatic recorder located on right bank at Eighth Street at Renovo directly across from gaging station, 1 mi (1.6 km) upstream from Paddy Run.

DRAINAGE AREA.--2,980 mi^2 (7,700 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1967 to September 1974.
Water temperatures: October 1968 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 668 micromhos Oct. 1; minimum, 139 micromhos July 1.
pH: Maximum, 5.5 July 3; minimum, 3.3 on several days during October, July, and August.
Water temperatures: Maximum, 28.5°C Aug. 14; minimum, 10.5°C Oct. 17.

Period of record:
Specific conductance (1968-74): Maximum, 973 micromhos Oct. 3, 1968; minimum, 116 micromhos Feb. 3, 1973.
pH (1968-74): Maximum, 6.4 Sept. 30, 1971; minimum, 2.2 Sept. 23, 24, 1969.
Water temperatures: Maximum, 31.0°C June 27-30 and July 16, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--No continuous records for specific conductance, pH, and water temperature available November 1973 to April 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 18...	1415	1330	5.7	1700	--	--	470	--	2600	28	13	5.5
DEC. 04...	1130	6970	5.2	--	1100	--	800	--	1500	16	7.5	3.0
JAN. 11...	0830	3930	5.6	--	2300	--	1200	--	1900	23	12	4.0
FEB. 21...	1115	2620	5.8	--	2200	--	40	--	2000	27	12	4.5
MAR. 29...	1400	5400	6.1	--	1200	960	--	1500	--	19	8.8	3.2
MAY 29...	1330	2970	6.1	--	1500	--	300	--	1500	22	10	3.2
JULY 10...	1315	2750	6.1	--	1200	--	220	--	1500	22	10	3.6
AUG. 29...	1315	1370	--	--	--	--	--	--	--	--	--	--
SEP. 18...	1500	1680	--	--	2200	--	270	--	2100	--	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 18...	1.8	0	0	0	6.6	.2	.28	--	.00	--	.28	--
DEC. 04...	1.4	0	0	0	4.5	.1	.50	--	.00	--	.50	--
JAN. 11...	1.1	0	0	0	5.6	.2	.42	--	.00	--	.42	--
FEB. 21...	1.3	0	0	0	5.9	.1	.40	--	.01	--	.41	--
MAR. 29...	1.2	0	0	0	4.6	.2	.46	--	.00	--	.46	--
MAY 29...	1.6	--	0	--	4.5	.2	--	.43	--	.01	--	.44
JULY 10...	4.8	0	0	0	7.7	.1	--	--	--	--	--	--
AUG. 29...	--	--	--	--	--	--	.27	--	--	--	--	--
SEP. 18...	--	--	--	--	5.0	--	.27	.27	--	--	--	--

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 18...	--	--	--	--	--	--	--	--	--	--	241
DEC. 04...	--	--	--	--	--	--	--	--	--	--	139
JAN. 11...	--	--	--	--	--	--	--	--	--	--	197
FEB. 21...	--	--	--	--	--	--	--	--	--	--	215
MAR. 29...	--	--	--	--	--	--	--	--	--	--	166
MAY 29...	--	--	--	--	--	--	--	--	--	.00	178
JULY 10...	--	--	--	--	--	--	--	--	--	.00	177
AUG. 29...	.27	--	.20	--	.47	--	.01	--	.00	--	--
SEP. 18...	.07	.07	.19	.19	.26	.26	.02	.02	.00	.00	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 18...	184	123	123	20	.4	360	3.9	11.0	3	--	.0
DEC. 04...	111	71	71	24	.1	206	4.1	6.0	3	--	.0
JAN. 11...	177	107	107	25	.5	325	3.9	1.7	4	--	.0
FEB. 21...	201	117	117	20	.4	359	3.9	2.6	1	--	.0
MAR. 29...	143	84	84	15	.3	261	4.4	4.2	0	--	.0
MAY 29...	--	96	96	15	.3	320	4.0	--	--	--	.0
JULY 10...	158	96	96	15	.3	295	4.1	25.5	--	7.6	.0
AUG. 29...	--	--	--	42	.8	561	3.2	22.0	--	8.2	--
SEP. 18...	--	--	--	11	.4	305	3.7	20.0	--	8.6	--

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)
SEP. 18...	1500	0	1	0	40	20	4	<.5	0	120	2

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	668	499	573	---	---	---	---	---	---	---	---	---
2	552	345	437	---	---	---	---	---	---	---	---	---
3	348	326	335	---	---	---	---	---	---	---	---	---
4	378	320	345	---	---	---	---	---	---	---	---	---
5	332	283	303	---	---	---	---	---	---	---	---	---
6	340	279	314	---	---	---	---	---	---	---	---	---
7	323	276	307	---	---	---	---	---	---	---	---	---
8	276	249	260	---	---	---	---	---	---	---	---	---
9	274	248	261	---	---	---	---	---	---	---	---	---
10	264	245	252	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	371	337	353	---	---	---	---	---	---	---	---	---
14	378	338	361	---	---	---	---	---	---	---	---	---
15	384	362	373	---	---	---	---	---	---	---	---	---
16	410	378	397	---	---	---	---	---	---	---	---	---
17	396	351	375	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	335	305	313	216	139	161	492	417	478	381	249	320
2	380	333	357	191	145	163	458	436	445	288	246	261
3	356	286	313	204	191	198	457	448	454	308	165	241
4	301	287	292	201	192	196	466	449	460	216	179	197
5	321	299	309	215	198	208	475	457	467	235	225	230
6	347	319	331	235	211	218	487	461	469	211	208	210
7	348	339	344	251	233	243	524	502	514	---	---	---
8	361	347	354	269	248	256	518	502	509	---	---	---
9	370	359	365	278	265	271	504	481	491	---	---	---
10	380	331	369	292	258	281	493	477	485	290	274	283
11	383	348	361	315	290	298	---	---	---	322	294	308
12	395	374	386	364	333	349	---	---	---	338	321	328
13	408	384	398	389	347	372	545	497	525	344	335	339
14	420	405	415	344	320	329	497	479	488	355	341	344
15	431	339	406	331	235	293	490	475	483	428	357	398
16	354	276	318	312	245	275	487	470	479	428	307	355
17	338	273	309	335	309	320	475	457	468	323	305	314
18	316	258	280	338	331	335	493	469	481	350	323	333
19	262	248	255	360	149	348	524	491	508	371	352	362
20	284	257	269	393	365	373	551	526	538	373	325	349
21	310	283	299	405	387	398	544	524	537	355	230	300
22	329	310	320	439	409	426	516	501	507	332	243	274
23	327	304	314	450	438	444	509	484	499	337	288	317
24	350	315	329	450	433	445	498	480	490	283	245	258
25	354	303	336	447	428	439	510	483	496	258	240	249
26	330	313	319	485	421	450	527	505	517	275	257	262
27	362	317	345	491	470	483	540	514	527	302	275	286
28	317	281	302	480	440	460	550	529	538	304	298	301
29	284	256	268	471	436	457	561	540	552	314	297	305
30	276	168	253	466	424	444	562	414	485	327	316	322
31	---	---	---	480	452	464	407	356	375	---	---	---
MONTH	431	168	328	491	139	335	562	356	492	428	165	298

SUSQUEHANNA RIVER BASIN

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.7	3.3	3.5	---	---	---	---	---	---	---	---	---
2	3.9	3.6	3.7	---	---	---	---	---	---	---	---	---
3	4.0	3.9	3.9	---	---	---	---	---	---	---	---	---
4	4.1	3.8	3.9	---	---	---	---	---	---	---	---	---
5	4.3	4.0	4.1	---	---	---	---	---	---	---	---	---
6	4.3	3.7	3.9	---	---	---	---	---	---	---	---	---
7	3.9	3.6	3.7	---	---	---	---	---	---	---	---	---
8	4.3	3.9	4.1	---	---	---	---	---	---	---	---	---
9	4.4	4.2	4.3	---	---	---	---	---	---	---	---	---
10	4.4	4.2	4.3	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	4.3	4.1	4.1	---	---	---	---	---	---	---	---	---
14	4.4	4.2	4.3	---	---	---	---	---	---	---	---	---
15	4.4	4.2	4.3	---	---	---	---	---	---	---	---	---
16	4.4	4.3	4.3	---	---	---	---	---	---	---	---	---
17	4.5	4.3	4.4	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.9	3.9	3.9	5.3	4.1	4.8	3.3	3.3	3.3	4.6	3.9	4.2
2	3.9	3.6	3.8	5.3	4.8	5.0	3.4	3.3	3.3	4.4	4.2	4.3
3	4.1	3.8	4.0	5.5	5.2	5.4	3.5	3.4	3.4	4.9	4.1	4.4
4	4.1	4.0	4.1	5.2	4.8	5.0	3.5	3.4	3.4	4.9	4.7	4.8
5	4.1	3.9	4.0	4.9	4.5	4.7	3.5	3.5	3.5	5.2	4.9	5.1
6	4.0	3.8	3.9	4.5	4.3	4.4	3.5	3.5	3.5	4.9	4.6	4.7
7	3.9	3.8	3.8	4.3	4.1	4.2	3.5	3.4	3.4	---	---	---
8	3.8	3.8	3.8	4.1	4.0	4.1	3.5	3.4	3.4	---	---	---
9	3.8	3.7	3.7	4.1	4.0	4.1	3.5	3.5	3.5	---	---	---
10	3.8	3.7	3.7	4.1	3.9	4.0	3.5	3.4	3.5	3.9	3.8	3.8
11	3.7	3.7	3.7	4.1	3.8	4.1	---	---	---	3.8	3.7	3.8
12	3.7	3.6	3.5	4.1	4.0	4.0	---	---	---	3.8	3.7	3.7
13	3.6	3.5	3.5	4.1	4.0	4.0	3.7	3.7	3.7	3.7	3.7	3.7
14	3.5	3.4	3.5	4.2	4.1	4.2	3.8	3.7	3.7	3.7	3.7	3.7
15	3.7	3.5	3.5	4.6	4.1	4.3	3.8	3.7	3.7	3.7	3.6	3.6
16	3.9	3.6	3.7	4.4	4.1	4.2	3.8	3.7	3.7	3.9	3.6	3.8
17	3.9	3.6	3.7	4.1	4.0	4.0	3.8	3.6	3.8	4.0	3.9	3.9
18	4.0	3.7	3.9	4.0	4.0	4.0	3.8	3.7	3.8	4.0	3.8	3.9
19	4.1	4.0	4.0	4.0	3.9	4.0	3.8	3.7	3.7	4.0	3.9	3.9
20	4.0	3.9	4.0	3.9	3.8	3.8	3.8	3.7	3.7	4.0	3.9	3.9
21	3.9	3.8	3.9	3.8	3.7	3.8	3.8	3.7	3.7	4.3	3.9	4.0
22	3.8	3.7	3.7	3.8	3.7	3.7	3.8	3.8	3.6	4.2	4.0	4.1
23	3.8	3.7	3.8	3.8	3.7	3.7	3.7	3.7	3.7	4.2	4.0	4.1
24	3.8	3.7	3.7	3.8	3.7	3.8	3.7	3.6	3.7	4.3	4.2	4.3
25	3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.7	4.4	4.3	4.3
26	3.9	3.6	3.8	3.8	3.3	3.5	3.6	3.5	3.6	4.3	4.2	4.2
27	3.9	3.8	3.8	3.4	3.3	3.3	3.6	3.5	3.6	4.2	4.1	4.2
28	4.1	3.8	4.0	3.4	3.3	3.4	3.6	3.5	3.5	4.1	4.0	4.1
29	4.2	4.0	4.1	3.4	3.4	3.4	3.7	3.6	3.6	4.1	4.0	4.1
30	5.1	3.9	4.2	3.4	3.3	3.4	3.8	3.6	3.7	4.0	4.2	4.1
31	---	---	---	3.4	3.3	3.3	3.9	3.8	3.9	---	---	---
MONTH	5.1	3.4	3.8	5.5	3.3	4.0	3.9	3.3	3.6	5.2	3.6	4.1

SUSQUEHANNA RIVER BASIN

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	15.5	16.5	---	---	---	---	---	---	---	---	---
2	17.5	17.0	17.5	---	---	---	---	---	---	---	---	---
3	20.5	16.5	18.0	---	---	---	---	---	---	---	---	---
4	19.5	17.5	18.5	---	---	---	---	---	---	---	---	---
5	19.0	17.5	18.5	---	---	---	---	---	---	---	---	---
6	17.5	15.5	16.5	---	---	---	---	---	---	---	---	---
7	16.5	15.0	16.0	---	---	---	---	---	---	---	---	---
8	17.5	15.0	16.0	---	---	---	---	---	---	---	---	---
9	17.0	15.5	16.5	---	---	---	---	---	---	---	---	---
10	18.5	16.0	17.0	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	18.0	16.0	17.0	---	---	---	---	---	---	---	---	---
14	17.5	15.0	16.5	---	---	---	---	---	---	---	---	---
15	15.5	14.0	15.0	---	---	---	---	---	---	---	---	---
16	14.0	11.5	13.0	---	---	---	---	---	---	---	---	---
17	12.0	10.5	11.5	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---				---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	17.5	19.5	16.5	14.5	15.5	25.5	21.5	23.5	23.5	20.5	22.0
2	22.5	18.0	20.0	18.0	15.0	16.5	26.0	22.5	24.0	20.5	19.0	20.0
3	24.0	19.5	21.5	20.5	17.5	19.0	25.0	23.5	24.0	20.0	15.5	17.5
4	24.0	19.5	21.5	23.5	19.5	21.5	25.0	23.0	24.0	15.5	14.5	15.0
5	25.0	19.5	22.5	23.0	21.5	22.5	23.5	21.0	22.5	17.5	15.5	16.0
6	24.0	19.5	22.5	23.0	20.0	21.5	25.0	20.0	22.0	16.5	15.5	16.0
7	24.5	20.0	22.0	24.5	20.5	22.5	26.0	22.0	23.5	---	---	---
8	24.0	17.5	22.5	26.5	21.5	24.0	24.0	22.5	23.5	---	---	---
9	26.5	21.5	24.0	27.5	23.0	25.5	24.5	22.0	23.0	---	---	---
10	28.0	23.5	25.5	27.5	24.5	26.0	25.0	22.0	23.5	19.5	17.5	18.5
11	26.0	22.5	24.5	26.0	19.0	24.5	---	---	---	20.0	18.0	19.0
12	23.0	20.5	22.0	25.5	21.0	23.0	---	---	---	22.5	19.5	20.5
13	23.0	18.5	20.5	26.5	21.5	24.0	26.5	21.5	24.0	23.5	21.0	22.5
14	23.5	18.5	21.0	27.5	23.0	25.0	28.5	24.5	26.0	22.5	19.5	21.0
15	23.0	19.0	21.5	25.5	22.0	24.5	28.0	23.5	26.0	20.5	18.0	19.0
16	19.0	17.5	18.5	25.0	22.0	23.5	27.5	23.5	25.5	20.5	18.0	19.5
17	20.0	17.0	18.5	25.0	21.0	23.0	26.5	24.0	25.0	20.0	17.5	18.5
18	20.5	17.5	19.0	25.5	23.5	24.5	25.5	22.5	24.0	21.0	18.5	19.5
19	21.0	18.0	19.5	26.5	24.0	25.0	25.0	22.0	23.5	20.5	18.0	19.0
20	23.5	19.5	21.5	26.5	23.0	24.0	27.0	22.5	24.5	20.0	19.0	19.5
21	22.0	20.0	21.0	26.0	21.0	23.0	27.0	23.5	25.0	19.0	15.5	18.0
22	24.5	20.5	22.5	26.0	21.5	23.5	25.5	14.0	24.5	15.0	14.0	14.5
23	23.5	20.0	21.5	23.5	20.5	22.0	27.0	23.5	25.0	14.0	13.0	13.5
24	22.5	18.5	20.5	23.5	20.0	21.5	26.5	24.0	25.0	13.5	11.0	12.5
25	21.5	17.5	19.5	24.0	21.5	22.5	26.5	22.5	24.5	12.5	11.0	11.5
26	18.5	16.5	17.5	22.5	21.0	21.5	27.5	23.5	25.5	14.5	11.0	13.0
27	21.0	17.0	19.0	26.0	20.5	23.0	27.5	25.0	26.5	16.0	13.0	14.5
28	20.0	18.5	19.0	27.0	23.5	25.0	26.5	23.0	25.0	16.5	15.0	15.5
29	18.0	17.0	17.5	26.0	23.0	24.0	21.5	21.0	21.5	17.5	15.5	16.5
30	18.0	15.0	17.0	24.5	22.0	23.0	23.0	20.5	21.5	15.0	13.5	14.5
31	---	---	---	25.0	21.5	23.0	24.0	21.5	23.0	---	---	---
MONTH	28.0	15.0	21.0	27.5	14.5	23.0	28.5	14.0	24.0	23.5	11.0	17.5

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°23'22", long 77°41'28", Clinton County, at gaging station on left bank, 0.3 mi (0.5 km) downstream from Laurelly Fork, 1.5 mi (2.4 km) upstream from Left Branch Young Womans Creek, 3.7 mi (6.0 km) upstream from mouth, and 5 mi (8.0 km) northeast of Renovo.

DRAINAGE AREA.--46.2 mi^2 (120 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1965 to September 1974.
Sediment records: October 1968 to September 1970 (partial-record station), October 1972 to September 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 453.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV.											
01...	1400	320	3.9	3.8	1.0	.7	.9	4	0	3	7.6
20...	1130	40	3.3	3.7	1.0	.9	.7	7	0	6	6.1
DEC.											
11...	1145	162	3.5	4.0	1.1	.7	.8	4	0	3	7.4
JAN.											
16...	1130	50	3.4	3.5	1.0	1.5	.9	7	0	6	6.7
FEB.											
27...	1230	130	3.6	3.2	1.0	.6	.8	3	0	2	7.5
MAR.											
12...	1200	330	3.8	3.5	.8	.6	1.0	4	0	3	7.8
APR.											
22...	1530	107	3.6	3.5	1.0	.7	3.2	6	0	5	8.2
MAY											
29...	1400	43	3.7	3.9	1.0	.8	1.9	12	0	10	7.0
JUNE											
25...	1415	34	4.0	4.0	1.0	1.0	.9	7	0	6	8.1
JULY											
10...	1415	46	4.3	4.1	.9	.8	.9	7	0	6	7.6
AUG.											
28...	1535	22	3.8	5.2	1.3	1.1	1.1	13	0	11	6.2
SEP.											
18...	1145	19	4.1	4.8	1.0	.9	.8	10	0	8	7.4

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV.										
01...	1.4	.1	.24	.01	.25	.01	.00	440	21	14
20...	1.7	.2	.34	--	--	.00	.00	32	21	13
DEC.										
11...	.9	.2	.33	.00	.33	.00	.00	28	21	15
JAN.										
16...	1.2	.0	.14	--	--	.01	--	24	22	13
FEB.										
27...	.8	.1	.30	--	--	.01	--	30	19	12
MAR.										
12...	1.1	.2	.40	--	--	.00	--	24	21	12
APR.										
22...	5.0	.1	--	--	.26	.01	--	26	31	13
MAY										
29...	.9	.1	--	--	.23	.01	--	20	27	14
JUNE										
25...	.8	.0	--	--	.21	.01	--	28	25	14
JULY										
10...	.9	.1	--	--	.16	.01	--	26	25	14
AUG.										
28...	1.5	.0	--	--	.27	.01	--	30	27	18
SEP.										
18...	.7	.0	--	--	.13	.01	--	30	25	16

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 01...	10	38	6.5	9.0	10.6	4.0	240	8	53	.5
20...	8	37	6.8	6.0	13.0	1.8	120	0	6	--
DEC. 11...	11	39	6.8	5.0	12.4	1.0	48	0	5	--
JAN. 16...	7	37	6.8	1.0	14.2	3.0	43	3	6	--
FEB. 27...	10	38	6.7	1.0	14.2	1.0	35	0	--	--
MAR. 12...	9	37	6.9	5.0	13.0	.8	52	0	1	--
APR. 22...	8	34	6.2	10.5	11.0	.0	54	1	2	--
MAY 29...	4	47	6.7	13.5	10.4	3.8	81	10	100	--
JUNE 25...	8	39	6.2	14.0	9.8	7.1	75	17	312	--
JULY 10...	8	32	6.2	19.0	9.0	7.1	160	68	580	--
AUG. 28...	8	50	6.4	18.0	8.8	8.3	2100	1300	--	--
SEP. 18...	8	42	6.8	14.0	10.6	2.5	50	0	50	--

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV. 01...	1400	180	30	.02	<1	0	0
APR. 22...	1530	20	20	.00	1	0	0
SEP. 18...	1145	340	40	.00	<1	0	0

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 01...	0	0	1	<.5	1	0	10
APR. 22...	<10	0	1	<.5	0	0	0
SEP. 18...	<10	0	3	<.5	3	0	0

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)
NOV. 01...	1400	.00	.0	.0	0	.00	.0	.00	.0	.00
SEP. 18...	1145	.00	.0	.0	0	.00	.1	.00	.2	.00

DATE	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELORIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
NOV. 01...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0
SEP. 18...	.0	--	--	.00	.1	.00	.0	--	.00	.0

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION (UG/L)
NOV. 01...	.00	.0	.00	.0	.00	.0	.00	.0	.0	.00
SEP. 18...	.00	.0	.00	.0	--	--	--	--	--	--

DATE	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV. 01...	.0	.0	0	--	0	.0	.00	.00	.00
SEP. 18...	--	.0	0	0	0	--	.00	.00	.00

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
NOV. 20...	1130	27	<1	.4	<.4	1.5	<.4	1.3	<.4	.07	<.01
SEP. 18...	1145	29	4	<.4	.5	1.8	.5	1.5	.5	.03	.01

01547400 BALD EAGLE CREEK NEAR MILESBURG, PA.

LOCATION.--Lat 40°58'31", long 75°44'35", Centre County, at highway bridge at Curtin, 500 ft (152 m) downstream from Antis Run, 250 ft (76 m) downstream from Nittany Creek, and 3.5 mi (5.6 km) downstream from Milesburg.

DRAINAGE AREA.--296 mi^2 (767 km^2).

PERIOD OF RECORD.--Chemical analyses: January to May 1970.
Water temperatures: July 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.0°C July 4, 8, 9; minimum, 1.0°C Jan. 13, 14, Feb. 5, 24.

Period of record:
Water temperatures: Maximum, 29.0°C July 17, 18, Aug. 9, 23, 1968, June 27, 30, July 16, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--The thermograph at this site records continuous water temperature of the inflow to Foster Joseph Sayers Reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.5	12.0	10.5	7.0	4.5	5.5	5.0	5.5	4.5	5.5	5.0
2	16.0	15.0	11.5	9.0	5.0	3.5	5.0	4.0	4.5	3.5	4.5	3.5
3	19.0	15.5	12.0	10.0	7.0	3.5	4.0	4.0	3.5	3.0	8.0	4.5
4	19.5	15.5	10.0	8.5	8.5	5.5	5.0	4.0	3.5	2.0	11.0	5.5
5	19.5	16.0	9.5	8.0	9.0	8.0	4.0	3.0	3.5	1.0	11.0	8.0
6	18.5	13.5	8.5	6.0	8.5	7.0	4.5	4.0	4.5	1.5	8.0	5.0
7	16.0	13.0	8.5	5.5	7.0	5.5	4.5	4.0	5.0	3.5	11.0	7.0
8	18.5	14.0	8.5	5.5	5.5	5.0	4.0	3.0	5.0	3.0	9.5	5.0
9	18.0	15.0	8.0	6.5	5.0	4.5	4.0	3.0	4.0	3.0	5.5	5.0
10	19.0	16.0	11.0	6.0	5.5	4.5	4.0	3.5	3.0	1.5	8.0	5.5
11	18.5	20.5	14.0	11.0	5.0	4.0	4.0	3.5	4.5	2.0	6.5	4.5
12	18.0	14.5	14.5	11.0	4.5	4.0	3.5	3.0	6.0	3.0	7.0	5.5
13	19.0	15.0	---	---	4.5	3.5	3.0	1.0	7.0	4.0	6.0	3.5
14	19.0	15.5	---	---	4.5	4.0	3.5	1.0	6.5	5.0	8.0	3.5
15	17.0	13.5	---	---	4.5	4.0	4.5	3.5	5.5	3.5	8.0	3.5
16	16.5	14.5	---	---	3.5	3.0	4.5	3.5	5.0	3.5	6.5	5.5
17	13.5	13.0	9.5	6.0	2.0	2.0	4.0	4.0	5.5	3.5	5.5	4.0
18	---	---	7.0	4.0	3.0	2.0	4.0	3.0	6.5	3.5	8.0	3.0
19	---	---	9.5	7.0	3.5	3.0	4.5	4.0	6.0	4.5	8.0	5.5
20	---	---	9.5	8.5	4.0	3.0	4.5	4.0	8.0	5.5	9.5	5.0
21	---	---	10.0	9.5	3.0	3.0	4.5	3.5	8.5	4.5	8.0	5.0
22	---	---	11.5	9.5	3.0	1.5	5.5	4.5	5.5	3.0	6.5	4.0
23	---	---	10.0	8.0	4.0	3.0	5.5	4.5	4.0	2.0	8.5	3.5
24	---	---	9.5	8.5	4.0	3.5	5.5	5.0	4.0	1.0	8.5	4.0
25	---	---	9.5	8.5	4.5	4.0	6.0	4.0	4.0	2.0	6.5	2.0
26	---	---	9.0	8.0	5.0	4.5	4.5	4.0	4.0	1.5	8.5	3.0
27	16.5	13.0	10.5	8.5	6.0	4.5	8.0	4.5	5.5	2.0	9.0	4.0
28	14.5	12.0	11.0	9.5	6.0	6.0	6.5	5.5	5.5	3.5	8.5	6.0
29	13.5	11.5	9.0	7.0	6.0	5.0	6.5	6.0	---	---	6.0	4.0
30	12.0	11.0	8.5	6.0	5.5	4.5	8.0	5.5	---	---	4.0	1.5
31	12.0	10.0	---	---	5.0	4.5	8.0	4.5	---	---	3.0	1.5
MONTH	---	---	14.5	4.0	9.0	1.5	8.0	1.0	8.5	1.0	11.0	1.5

01547400 BALD EAGLE CREEK NEAR MILESBURG, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	3.0	19.0	14.5	---	---	20.5	15.5	---	---	20.5	19.0
2	8.0	4.5	15.0	11.0	---	---	22.0	16.0	---	---	20.0	18.0
3	9.5	4.5	11.0	10.0	20.5	---	24.0	18.0	20.5	18.0	19.5	18.0
4	11.5	9.5	13.5	8.5	20.5	15.0	25.0	19.5	19.0	18.0	18.0	16.0
5	10.5	8.5	13.0	7.0	22.0	16.0	22.0	19.5	20.0	16.0	17.0	14.0
6	8.0	6.0	12.0	9.0	21.5	15.5	21.0	18.0	21.0	15.5	16.5	15.0
7	9.0	4.5	10.0	8.0	22.0	16.0	22.0	16.5	20.5	16.0	15.5	14.0
8	8.5	5.5	10.0	6.0	21.0	18.0	25.0	18.5	19.0	16.0	17.0	13.5
9	5.5	5.0	10.0	9.0	17.0	17.0	25.0	19.5	20.0	16.5	17.0	15.0
10	9.0	4.5	14.0	9.0	19.0	19.0	24.5	20.5	18.5	16.0	19.5	15.5
11	10.5	5.5	15.5	9.0	19.0	19.0	23.0	18.5	19.5	15.5	19.0	16.0
12	11.0	8.0	14.5	11.0	16.5	16.5	23.0	16.5	20.0	15.5	21.5	16.5
13	13.5	9.5	11.0	9.0	14.5	14.5	22.0	17.0	22.0	17.0	22.0	18.5
14	14.5	10.0	15.5	9.0	15.0	15.0	23.5	18.5	24.0	19.0	21.0	16.5
15	12.0	9.0	16.5	12.0	17.0	17.0	23.5	19.5	23.5	18.0	17.0	13.5
16	13.5	8.0	18.0	12.0	16.0	16.0	22.0	18.5	23.0	17.0	18.0	14.0
17	14.0	8.0	18.5	15.0	19.5	15.5	21.5	16.5	21.0	18.0	18.5	14.5
18	14.5	9.5	19.5	15.0	19.5	14.5	24.5	18.5	20.0	16.5	19.5	15.5
19	14.0	11.0	19.0	14.5	20.0	16.0	23.5	19.5	23.0	16.5	20.0	15.0
20	14.5	8.0	17.0	12.0	23.0	18.0	20.5	18.0	23.5	18.0	19.0	16.5
21	14.5	9.0	18.0	11.5	21.0	18.5	21.0	15.5	24.5	18.5	19.0	14.5
22	13.5	11.5	17.0	13.0	22.0	18.0	21.0	15.5	20.5	18.5	14.5	12.0
23	12.0	11.0	15.5	14.0	20.5	18.0	18.0	17.0	23.5	19.0	14.0	10.5
24	10.0	9.0	15.0	11.5	20.0	15.0	20.0	16.5	23.5	19.0	14.0	9.5
25	13.5	6.5	11.0	9.5	19.0	16.5	20.5	17.0	21.5	18.0	13.5	10.0
26	16.0	10.0	12.0	8.5	18.0	15.5	19.0	16.5	24.5	19.0	15.5	11.5
27	16.5	10.0	11.0	8.5	20.5	15.5	21.5	16.0	24.5	19.5	16.5	12.0
28	18.0	12.0	13.5	8.0	18.5	16.5	21.5	17.0	21.5	20.0	15.5	14.0
29	20.0	15.5	12.0	11.0	16.5	15.5	---	---	21.0	19.0	16.0	14.5
30	18.0	15.5	16.0	11.0	18.0	15.0	---	---	23.0	20.0	15.0	13.0
31	---	---	13.5	12.0	---	---	---	---	21.5	19.5	---	---
MONTH	20.0	3.0	19.5	6.0	23.0	14.5	25.0	15.5	24.5	15.5	22.0	9.5

01547500 BALD EAGLE CREEK AT BLANCHARD, PA.

LOCATION.--Lat 41°03'06", long 77°36'17", Centre County, at gaging station on left bank, 0.4 mi (0.6 km) downstream from Foster Joseph Sayers Reservoir, 0.7 mi (1.1 km) upstream from Marsh Creek, and 0.9 mi (1.4 km) south of Blanchard.

DRAINAGE AREA.--339 mi^2 (878 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1959 to September 1972.
Water temperatures: October 1956 to September 1957, August 1967 to September 1974.
Sediment records: December 1955 to March 1958 (partial-record station).

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C July 18, 19; minimum, 1.0°C Jan. 12-14.

Period of record:
Water temperatures: Maximum, 33.0°C June 20, 1957; minimum, freezing point Jan. 13, 14, 1957, Jan. 26, Feb. 18, 23, 1968.

REMARKS.--The thermograph at this site records continuous water temperature of the outflow from Foster Joseph Sayers Reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	18.0	---	---	7.0	6.5	4.0	3.5	6.5	5.5	3.0	3.0
2	18.5	18.5	12.0	11.5	7.0	6.5	3.5	3.0	5.5	4.0	2.0	2.0
3	19.5	18.5	11.5	11.0	7.0	6.0	3.5	3.5	4.0	3.5	3.0	2.0
4	19.5	18.5	11.0	10.5	7.0	6.5	3.5	3.0	3.5	3.5	4.0	3.0
5	19.0	18.5	10.5	10.5	7.0	6.5	3.0	2.0	3.5	3.5	4.0	3.0
6	19.0	18.0	10.5	9.5	6.5	6.5	3.0	2.0	---	---	5.0	3.5
7	18.0	17.0	9.5	9.0	6.5	6.0	3.0	2.0	3.0	1.5	5.5	4.5
8	18.5	17.0	9.5	9.0	6.0	5.5	3.0	2.0	2.0	1.5	5.5	4.5
9	18.0	17.0	8.5	8.0	5.5	5.0	2.0	2.0	2.0	1.5	5.5	5.0
10	18.5	17.0	8.0	7.0	5.0	5.0	2.0	2.0	2.0	1.5	5.0	4.5
11	18.0	17.0	7.0	6.5	5.0	4.5	2.0	2.0	3.0	2.0	5.5	5.0
12	18.5	17.0	7.0	6.5	4.5	4.0	2.0	1.0	3.5	2.0	5.5	5.5
13	18.0	17.0	8.0	6.5	4.5	4.0	1.5	1.0	3.5	3.0	6.0	5.5
14	---	---	8.0	7.0	4.0	4.0	1.5	1.0	3.5	2.0	6.0	5.5
15	---	---	8.5	7.0	4.0	3.5	2.0	1.5	3.5	2.0	6.0	5.0
16	---	---	8.0	7.0	3.5	3.0	3.0	2.0	3.0	2.0	5.0	5.0
17	---	---	8.0	7.0	3.0	2.0	2.0	1.5	3.5	2.0	5.0	4.5
18	16.0	15.5	7.0	6.5	2.0	1.5	2.0	2.0	3.5	2.0	5.5	4.5
19	15.5	15.0	7.0	6.5	1.5	1.5	2.0	2.0	3.5	2.0	5.5	4.5
20	14.5	14.0	7.0	6.5	1.5	1.5	1.5	1.5	3.5	2.0	6.0	4.5
21	15.0	14.0	7.0	6.5	1.5	1.5	2.0	1.5	4.5	3.0	5.0	4.0
22	15.0	13.0	---	---	1.5	1.5	4.0	3.0	4.5	3.0	5.5	4.0
23	15.5	12.0	7.0	8.0	2.0	1.5	4.5	4.0	4.0	3.0	6.5	4.5
24	15.0	12.0	7.0	7.0	2.0	1.5	4.5	4.0	3.5	3.5	6.0	5.0
25	---	---	7.0	7.0	3.0	2.0	5.0	4.0	3.5	3.0	6.0	4.5
26	---	---	7.0	6.5	3.0	2.0	5.0	4.5	3.0	2.0	6.5	5.0
27	14.5	11.5	8.0	7.0	3.5	3.0	5.5	4.5	3.5	2.0	7.0	5.0
28	14.0	11.5	8.5	8.0	4.0	3.0	5.5	5.5	3.0	3.0	6.5	6.0
29	13.5	12.0	8.5	8.0	4.0	4.0	6.0	5.5	---	---	6.0	5.0
30	13.5	11.5	8.0	7.0	4.5	4.0	6.5	6.0	---	---	5.0	4.5
31	---	---	---	---	4.0	4.0	6.0	6.0	---	---	4.5	4.5
MONTH	---	---	12.0	6.5	7.0	1.5	6.5	1.0	6.5	1.5	7.0	2.0

SUSQUEHANNA RIVER BASIN

01547500 BALD EAGLE CREEK AT BLANCHARD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	---	---	16.5	16.0	18.0	16.5	---	---	21.0	20.5
2	6.0	5.0	---	---	16.0	15.5	18.5	17.0	---	---	21.0	20.5
3	6.0	5.0	---	---	16.5	16.0	19.0	17.0	22.0	21.5	21.0	20.5
4	7.0	6.5	---	---	17.0	16.0	20.0	18.0	22.0	21.0	20.5	20.0
5	8.5	7.0	---	---	16.5	15.5	19.5	18.5	22.0	21.0	20.0	19.5
6	8.0	8.0	---	---	16.5	15.5	18.5	18.0	23.0	21.5	20.0	19.0
7	8.5	8.0	---	---	16.5	15.5	19.0	17.0	23.5	22.0	19.5	19.0
8	8.5	8.0	---	---	16.5	16.0	19.5	18.0	23.0	22.0	19.5	18.5
9	8.5	8.5	---	---	17.0	16.0	20.5	18.5	22.0	21.0	20.0	18.5
10	9.0	8.0	---	---	17.0	16.0	20.5	19.5	21.5	21.0	19.5	19.0
11	9.5	8.5	12.5	11.5	19.0	17.0	20.0	19.5	22.0	21.0	19.5	19.0
12	9.5	8.5	13.5	12.0	18.5	17.0	21.0	20.0	22.0	21.0	21.0	19.5
13	10.5	8.5	13.5	12.0	18.5	16.5	21.5	20.5	23.0	21.5	21.0	20.0
14	11.0	9.5	14.5	13.0	18.5	16.5	23.0	21.0	23.0	21.5	20.5	19.5
15	10.5	9.5	14.5	13.5	18.5	16.5	23.0	22.0	22.0	21.0	20.0	19.0
16	10.5	9.5	15.0	14.0	19.0	17.0	23.0	21.5	22.0	21.5	20.0	19.0
17	12.0	10.0	16.0	14.5	19.5	18.5	23.5	21.5	22.0	21.0	20.0	19.0
18	12.0	11.0	15.5	14.5	19.5	18.5	24.0	22.0	21.5	21.0	20.0	19.0
19	11.5	11.0	15.0	14.0	21.0	19.0	24.0	23.0	22.0	21.0	19.5	19.0
20	12.0	10.0	14.5	13.5	21.5	20.0	23.5	22.0	22.0	21.0	19.5	19.0
21	13.0	11.0	14.5	13.5	21.0	20.0	23.5	21.5	22.0	21.0	19.5	18.5
22	13.0	11.5	15.0	14.0	21.0	20.0	23.5	21.5	21.5	21.0	19.0	18.0
23	12.0	12.0	14.5	13.5	20.0	18.5	22.0	21.5	23.0	21.5	19.0	18.0
24	12.0	11.0	14.5	14.0	20.0	18.5	22.0	21.0	22.0	21.0	18.5	17.0
25	11.5	10.5	14.0	13.5	19.5	18.0	22.0	21.0	21.5	20.5	18.5	17.0
26	12.0	10.5	14.5	14.0	18.0	17.0	21.5	21.0	21.5	21.0	18.0	17.0
27	12.0	11.0	15.0	14.0	17.0	16.5	23.0	21.0	23.0	21.0	18.5	18.0
28	14.0	11.0	15.5	14.5	18.5	16.0	21.5	21.0	22.0	21.0	18.0	17.0
29	14.5	11.5	15.5	15.0	17.0	16.0	22.0	21.0	21.5	21.0	18.5	17.0
30	13.5	12.0	16.0	15.5	17.0	16.0	---	---	21.5	21.0	17.0	16.5
31	---	---	16.5	16.0	---	---	---	---	21.5	21.0	---	---
MONTH	14.5	4.5	---	---	21.5	15.5	24.0	16.5	23.5	20.5	21.0	16.5

01547950 BEECH CREEK AT MONUMENT, PA.

LOCATION.--Lat 41°06'42", long 77°42'09", Centre County, at gaging station on right bank 800 ft (244 m) downstream from bridge at Monument, 850 ft (259 m) downstream from Monument Run, 0.6 mi (1.0 km) upstream from Twin Run, and 8.7 mi (14 km) upstream from mouth.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1968 to September 1974.
Water temperatures: December 1968 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 470 micromhos Aug. 25; minimum, 89 micromhos Mar. 10, 11.
pH: Maximum, 4.3 Mar. 10, 11; minimum, 3.2 on several days during July and August.
Water temperatures: Maximum, 24.0°C Aug. 14; minimum, freezing point on several days during December, January, and February.

Period of record:
Specific conductance: Maximum, 519 micromhos Sept. 14, 1972; minimum, 89 micromhos Mar. 10, 11, 1974.
pH: Maximum, 7.3 Dec. 17, 1969; minimum, 2.9 June 29, 30, 1969.
Water temperatures: Maximum, 28.5°C June 20, 1971; minimum, freezing point on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT. 19...	0845	69	5.9	3100	--	--	570	--	6500	19
DEC. 05...	0820	248	4.6	--	1600	--	290	--	1200	8.4
JAN. 10...	1200	266	2.8	--	2000	--	820	--	1800	11
FEB. 14...	0820	293	--	--	3000	--	--	--	--	--
MAR. 28...	1100	273	5.2	--	1900	900	--	1500	--	10
MAY 24...	1115	177	5.8	--	2400	--	420	--	1700	11
JULY 19...	1115	301	6.2	--	2400	--	260	--	1500	10
AUG. 28...	0945	57	--	--	--	--	--	--	--	--
SEP. 18...	1020	96	--	--	5400	--	900	--	3300	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT. 19...	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
DEC. 05...	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
JAN. 10...	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
FEB. 14...	--	--	--	--	--	--	--	--	--	--
MAR. 28...	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
MAY 24...	[illegible]	[illegible]	[illegible]	--	0	--	[illegible]	[illegible]	[illegible]	--
JULY 19...	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	--
AUG. 28...	--	--	--	--	--	--	[illegible]	--	--	--
SEP. 18...	--	--	--	--	--	--	[illegible]	--	--	--

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.									
19...	--	.00	--	.09	--	--	184	151	93
DEC.									
05...	--	.00	--	.19	--	--	95	77	42
JAN.									
10...	--	.00	--	.23	--	--	127	109	58
FEB.									
14...	--	--	--	--	--	--	170	--	--
MAR.									
29...	--	.00	--	.22	--	--	112	94	51
MAY									
29...	.16	--	.01	--	.17	.05	121	--	58
JULY									
10...	.13	--	.01	--	.14	.00	110	107	56
AUG.									
29...	--	--	--	--	--	--	--	--	--
SEP.									
19...	--	--	--	--	--	--	--	--	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.									
19...	93	.6	31	294	3.7	6.0	1	--	.0
DEC.									
05...	42	.3	17	148	4.0	0.5	2	--	.0
JAN.									
10...	58	.5	25	203	4.1	5.0	3	--	.0
FEB.									
14...	--	--	--	226	3.8	3.3	3	--	--
MAR.									
29...	51	.4	21	189	3.5	1.2	1	--	.0
MAY									
29...	58	.4	20	220	4.0	14.0	--	--	.0
JULY									
10...	56	.4	20	200	3.7	19.5	--	9.2	.0
AUG.									
29...	--	1.1	56	409	3.3	18.0	--	8.6	--
SEP.									
19...	--	.6	31	320	3.6	13.5	--	10.6	--

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP.											
19...	1000	<1	3	<10	80	10	6	<.5	0	0	290

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

SPECIFIC CONDUCTAICE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	412	378	390	---	---	---	124	120	122	144	138	141
2	379	331	352	---	---	---	137	123	126	150	143	145
3	385	357	371	---	---	---	145	130	133	157	149	154
4	374	321	356	---	---	---	149	137	141	168	156	162
5	388	245	310	---	---	---	149	137	144	174	161	168
6	275	222	239	---	---	---	165	135	147	185	174	182
7	224	215	219	---	---	---	136	130	132	193	186	189
8	218	214	216	---	---	---	132	129	131	201	188	194
9	221	216	218	---	---	---	159	125	132	211	201	204
10	231	219	224	175	165	170	168	137	149	218	207	212
11	239	229	234	184	173	179	144	131	136	232	214	220
12	251	238	244	---	---	---	134	131	133	239	226	233
13	260	249	254	---	---	---	139	135	137	245	211	228
14	278	251	262	---	---	---	145	134	139	---	---	---
15	285	276	280	---	---	---	152	143	147	---	---	---
16	284	275	278	238	201	221	157	148	153	---	---	---
17	287	281	284	236	220	226	162	157	159	---	---	---
18	292	286	289	225	220	223	180	160	167	---	---	---
19	310	292	300	234	224	229	180	171	176	229	211	218
20	313	309	311	237	232	235	184	155	176	218	194	204
21	319	310	314	238	235	237	209	143	175	196	175	185
22	329	314	318	---	---	---	143	131	135	177	142	154
23	337	324	331	---	---	---	135	130	133	143	134	139
24	324	316	319	---	---	---	137	132	134	141	128	132
25	345	314	329	---	---	---	144	136	140	142	127	135
26	357	304	330	---	---	---	164	140	152	148	140	143
27	371	366	368	---	---	---	160	125	140	157	147	153
28	373	367	369	162	141	148	126	110	115	148	137	144
29	366	230	326	147	122	132	123	111	114	156	128	139
30	266	120	170	122	119	120	130	122	125	131	127	129
31	---	---	---	---	---	---	139	120	133	140	129	134
MONTH	412	120	294	---	---	---	209	110	141	245	127	171

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	288	199	235	213	104	130	277	255	264	352	159	305
2	212	201	206	112	96	106	293	274	281	320	168	202
3	214	208	211	133	112	122	303	292	297	227	149	174
4	214	205	210	160	125	132	317	288	302	171	121	128
5	---	---	---	222	157	174	326	299	312	129	120	118
6	---	---	---	190	155	163	314	299	305	142	127	133
7	---	---	---	163	156	159	318	313	316	158	142	150
8	---	---	---	173	159	166	371	333	345	175	158	165
9	---	---	---	188	169	177	365	343	353	192	174	182
10	---	---	---	200	185	192	386	358	344	209	191	199
11	---	---	---	218	199	206	391	372	380	224	208	214
12	---	---	---	236	211	224	385	373	376	232	222	228
13	257	247	252	251	233	240	399	364	377	243	232	239
14	265	256	259	262	248	253	407	330	397	290	239	268
15	270	175	252	327	229	271	420	393	402	272	258	264
16	275	158	186	274	253	260	421	401	411	283	268	273
17	161	156	158	293	273	280	429	384	407	295	282	288
18	158	150	154	304	292	298	464	425	448	306	294	299
19	162	153	157	306	303	304	428	399	406	310	303	307
20	173	160	165	314	305	308	433	409	416	311	300	306
21	185	172	173	329	313	319	441	427	435	313	236	291
22	197	183	189	332	324	327	441	433	437	364	219	256
23	214	186	196	335	326	332	451	436	440	245	224	234
24	218	211	214	326	309	316	465	449	457	253	244	249
25	226	211	217	334	317	326	470	449	458	257	252	254
26	236	222	231	341	332	336	459	449	454	264	256	260
27	228	223	226	354	308	346	461	454	458	264	257	260
28	237	209	227	355	299	344	460	422	451	267	260	263
29	240	206	226	335	218	304	423	392	407	272	262	268
30	230	124	213	290	194	213	430	351	394	292	268	281
31	---	---	---	255	214	231	404	349	378	---	---	---
MONTH	---	---	---	355	96	244	470	255	384	364	120	235

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.4	3.4	3.4	---	---	---	4.1	4.0	4.1	4.3	4.2	4.3
2	3.5	3.3	3.4	---	---	---	4.1	4.1	4.1	4.3	4.2	4.3
3	3.4	3.4	3.4	---	---	---	4.1	4.0	4.1	4.3	4.2	4.2
4	3.5	3.4	3.4	---	---	---	4.0	4.0	4.0	4.2	4.2	4.2
5	3.6	3.4	3.5	---	---	---	4.1	4.0	4.1	4.2	4.1	4.1
6	3.7	3.6	3.7	---	---	---	4.2	4.0	4.1	4.1	3.9	4.0
7	3.8	3.7	3.7	---	---	---	4.2	4.2	4.2	4.0	3.9	4.0
8	3.8	3.7	3.7	---	---	---	4.2	4.2	4.2	4.0	3.9	4.0
9	3.7	3.7	3.7	---	---	---	4.2	4.1	4.2	4.1	4.0	4.1
10	3.7	3.7	3.7	4.3	4.2	4.2	4.2	4.1	4.2	4.0	3.9	3.9
11	3.9	3.7	3.8	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.9	4.0
12	3.9	3.8	3.9	4.3	4.3	4.3	4.2	4.2	4.2	4.0	3.9	4.0
13	3.9	3.8	3.8	---	---	---	4.2	4.1	4.1	4.1	4.0	4.0
14	3.9	3.8	3.8	---	---	---	4.2	4.1	4.1	---	---	---
15	3.9	3.7	3.8	---	---	---	4.2	4.1	4.1	---	---	---
16	3.8	3.8	3.8	3.8	3.7	3.7	4.2	4.1	4.1	---	---	---
17	3.8	3.8	3.8	3.7	3.7	3.7	4.1	4.1	4.1	---	---	---
18	3.8	3.8	3.8	3.7	3.6	3.7	4.1	4.0	4.1	---	---	---
19	3.8	3.7	3.8	3.7	3.7	3.7	4.1	4.0	4.0	3.9	3.8	3.8
20	3.8	3.8	3.8	3.7	3.7	3.7	4.1	3.9	4.0	3.9	3.9	3.9
21	3.8	3.7	3.8	3.8	3.7	3.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	3.8	3.7	3.8	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	3.8	3.7	3.7	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	3.8	3.7	3.7	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	3.8	3.7	3.7	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.2	4.1	4.1	4.0	3.8	3.9	4.0	3.9	4.0	3.8	3.7	3.8
2	4.0	3.9	4.0	4.0	3.9	3.9	4.1	4.0	4.0	3.8	3.7	3.7
3	4.0	4.0	4.0	3.9	3.8	3.9	4.2	4.1	4.1	3.7	3.6	3.7
4	4.0	4.0	4.0	3.9	3.8	3.9	---	---	---	3.8	3.7	3.7
5	4.0	4.0	4.0	3.9	3.8	3.9	---	---	---	3.8	3.7	3.8
6	4.0	3.9	4.0	3.9	3.8	3.8	3.9	3.7	3.8	3.8	3.7	3.8
7	4.0	3.9	4.0	3.9	3.8	3.9	3.9	3.8	3.9	3.8	3.7	3.8
8	4.0	3.9	3.9	4.0	3.8	3.9	3.9	3.8	3.9	3.9	3.8	3.8
9	4.0	4.0	4.0	4.1	3.8	4.0	3.9	3.9	3.9	3.8	3.8	3.8
10	4.1	4.0	4.0	4.3	4.0	4.2	3.9	3.8	3.9	3.8	3.7	3.7
11	4.1	4.0	4.0	4.3	4.1	4.2	3.9	3.8	3.9	3.8	3.7	3.8
12	4.0	3.9	3.9	4.2	4.0	4.1	3.8	3.6	3.7	3.9	3.7	3.8
13	3.9	3.8	3.9	4.1	4.0	4.0	3.8	3.6	3.7	4.0	3.8	4.0
14	3.9	3.6	3.9	4.0	3.9	3.9	3.8	3.7	3.8	4.1	4.0	4.0
15	3.8	3.7	3.7	4.0	3.9	3.9	3.9	3.8	3.8	4.1	3.9	4.0
16	3.8	3.7	3.8	4.0	3.9	3.9	3.9	3.8	3.8	4.0	3.9	4.0
17	3.8	3.7	3.8	4.0	3.9	3.9	3.9	3.8	3.8	4.0	3.9	4.0
18	3.8	3.7	3.8	4.0	3.9	4.0	3.9	3.7	3.8	3.8	3.7	3.8
19	3.8	3.7	3.8	4.0	3.9	3.9	3.7	3.6	3.7	3.9	3.8	3.8
20	3.8	3.7	3.7	3.9	3.8	3.8	3.8	3.7	3.8	3.9	3.8	3.8
21	3.8	3.7	3.7	3.9	3.7	3.8	3.8	3.7	3.8	3.9	3.8	3.8
22	3.8	3.7	3.7	3.9	3.7	3.8	3.8	3.7	3.7	3.8	3.7	3.8
23	4.0	3.8	3.9	3.9	3.8	3.9	3.8	3.7	3.7	---	---	---
24	4.0	3.9	4.0	3.9	3.8	3.9	3.8	3.7	3.8	---	---	---
25	3.9	3.8	3.8	4.0	3.9	3.9	3.8	3.7	3.8	3.8	3.7	3.8
26	4.0	3.8	3.9	---	---	---	3.9	3.7	3.8	3.8	3.7	3.8
27	4.0	3.9	4.0	---	---	---	3.8	3.7	3.8	3.8	3.7	3.8
28	4.0	3.9	3.9	---	---	---	3.8	3.7	3.8	3.8	3.7	3.8
29	---	---	---	---	---	---	3.8	3.7	3.8	3.7	3.6	3.7
30	---	---	---	3.9	3.8	3.9	3.8	3.7	3.8	3.6	3.5	3.6
31	---	---	---	3.9	3.9	3.9	---	---	---			
MONTH	4.2	3.7	3.9	4.3	3.7	3.9	4.2	3.6	3.8	4.1	3.5	3.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.7	3.5	3.6	3.8	3.5	3.6	3.6	3.5	3.6	3.8	3.4	3.5
2	3.7	3.6	3.6	3.8	3.7	3.8	3.5	3.4	3.5	3.8	3.5	3.7
3	3.7	3.6	3.6	3.8	3.7	3.7	3.4	3.4	3.4	3.9	3.7	3.8
4	3.7	3.6	3.6	3.8	3.7	3.8	3.4	3.3	3.4	4.0	3.9	4.0
5	3.7	3.6	3.6	3.8	3.6	3.7	3.5	3.3	3.4	4.0	3.9	[illegible]
6	---	---	---	3.8	3.6	3.7	3.5	3.4	3.4	4.0	3.9	3.9
7	---	---	---	3.8	3.7	3.7	3.4	3.4	3.4	4.0	3.9	3.9
8	---	---	---	3.7	3.7	3.7	3.4	3.3	3.4	3.9	3.9	3.9
9	---	---	---	3.7	3.6	3.7	3.4	3.3	3.4	3.9	3.9	3.9
10	---	---	---	3.7	3.6	3.7	3.4	3.3	3.3	3.8	3.8	3.8
11	---	---	---	3.6	3.6	3.6	3.4	3.3	3.3	3.8	3.7	3.7
12	---	---	---	3.7	3.5	3.6	3.4	3.3	3.3	3.7	3.7	3.7
13	3.6	3.5	3.5	3.6	3.6	3.6	3.4	3.3	3.3	3.7	3.7	3.7
14	3.6	3.5	3.5	3.6	3.6	3.6	3.4	3.3	3.3	3.7	3.6	3.6
15	3.6	3.5	3.6	3.7	3.5	3.6	3.3	3.3	3.3	3.7	3.6	3.6
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
MONTH	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	11.5	13.5	---	---	---	6.5	4.5	6.0	5.5	4.0	5.0
2	14.5	13.5	14.0	---	---	---	4.5	3.0	4.0	4.5	3.0	3.5
3	18.0	14.0	15.5	---	---	---	5.5	3.0	4.0	4.0	3.0	4.0
4	17.5	14.0	16.0	---	---	---	8.0	5.5	6.5	4.0	1.5	3.0
5	17.5	13.5	16.0	---	---	---	10.0	8.0	9.0	1.5	0.0	0.5
6	15.0	10.5	12.5	---	---	---	9.5	6.5	7.5	3.0	1.5	2.5
7	13.0	10.0	11.5	---	---	---	6.5	5.5	6.0	3.0	1.0	2.0
8	15.0	11.5	13.0	---	---	---	5.5	5.0	5.5	1.0	0.0	0.5
9	14.5	12.5	13.5	---	---	---	5.5	4.0	5.0	1.0	0.0	0.5
10	16.0	13.5	14.5	4.0	2.5	3.5	6.5	5.5	6.0	2.0	0.0	1.0
11	14.5	12.5	13.0	4.5	2.5	3.5	5.5	4.5	5.0	3.0	1.5	2.5
12	15.0	11.0	13.0	---	---	---	5.0	4.0	4.5	---	---	---
13	16.0	12.5	14.0	---	---	---	4.5	3.5	4.0	---	---	---
14	16.0	12.5	14.5	---	---	---	5.5	4.5	5.0	---	---	---
15	14.0	10.0	12.0	---	---	---	4.5	3.5	4.0	---	---	---
16	12.5	9.5	11.0	11.0	7.0	9.5	3.5	2.0	2.5	---	---	---
17	10.5	8.5	9.5	7.0	4.5	6.0	2.0	0.0	0.5	---	---	---
18	9.0	7.5	8.5	5.0	3.0	4.0	0.0	0.0	0.0	---	---	---
19	11.0	6.5	8.0	6.5	4.5	5.5	0.5	0.0	0.5	4.5	2.0	3.0
20	11.5	8.5	10.0	7.5	5.5	6.5	3.0	0.0	1.0	4.0	3.0	3.5
21	12.0	8.5	10.0	7.0	6.5	6.5	3.5	2.0	3.0	5.0	4.0	4.5
22	11.5	7.0	9.0	---	---	---	3.0	1.5	2.5	6.0	5.0	5.5
23	11.5	7.0	9.0	---	---	---	4.5	3.0	3.5	9.0	5.5	5.5
24	11.5	7.0	9.0	---	---	---	4.0	3.5	3.5	6.0	5.0	5.5
25	11.0	6.5	9.0	---	---	---	4.5	3.5	4.0	5.5	4.0	5.0
26	11.5	7.0	9.0	---	---	---	5.5	5.0	5.5	5.0	3.5	4.5
27	12.0	7.5	9.5	---	---	---	5.0	4.5	4.5	8.0	5.0	6.5
28	9.5	8.0	8.5	10.5	9.0	10.0	5.5	4.5	5.0	7.0	5.5	6.0
29	---	---	---	9.0	6.0	7.5	6.0	4.5	5.0	6.5	6.0	6.0
30	---	---	---	7.0	5.0	6.0	6.0	4.0	4.5	7.0	5.5	6.0
31	---	---	---	---	---	---	5.0	4.0	4.5	7.5	4.5	6.0
MONTH	18.0	6.5	11.5	---	---	---	10.0	0.0	4.5	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.0	4.5	5.0	4.0	4.5	5.5	3.0	4.0	17.0	11.5	14.0
2	4.5	3.0	4.0	4.0	2.5	3.5	8.0	4.5	6.0	14.5	9.0	12.0
3	3.5	2.5	3.0	7.0	4.0	5.0	9.0	4.0	6.5	9.0	9.5	10.5
4	3.0	1.5	2.0	9.5	5.5	7.0	---	---	---	11.5	8.0	10.5
5	1.5	0.5	0.5	10.5	7.5	9.0	---	---	---	14.0	7.0	10.0
6	1.5	0.5	1.0	7.0	4.5	5.5	8.0	6.0	7.0	12.5	9.0	11.0
7	2.0	0.5	1.0	9.5	6.5	7.5	8.5	4.5	6.5	12.0	7.5	8.5
8	1.5	0.0	1.0	8.5	5.0	6.5	8.0	4.5	6.5	9.5	5.5	7.5
9	0.5	0.0	0.5	6.0	5.0	5.5	5.0	4.0	4.5	9.5	9.0	9.5
10	0.5	0.0	0.0	8.5	6.0	7.5	8.5	3.5	6.0	10.0	9.0	10.5
11	0.5	0.0	0.0	8.0	6.5	7.5	8.5	4.5	6.5	13.0	7.0	11.5
12	2.5	0.0	1.0	7.5	5.0	7.0	9.5	6.0	7.0	15.5	10.5	12.0
13	4.5	1.5	2.5	5.5	3.5	4.5	12.0	8.5	10.0	13.5	8.5	10.0
14	5.0	2.0	3.5	6.0	2.0	4.5	13.0	8.5	10.5	12.0	8.0	11.0
15	2.5	0.0	1.5	5.5	3.0	4.5	11.0	7.5	9.0	14.5	10.5	13.0
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.5	14.5	16.0	13.5	14.5	19.0	15.0	16.5	20.0	18.0	18.5
2	18.0	13.0	15.0	15.5	12.0	13.5	17.0	16.5	16.5	18.0	15.5	16.5
3	18.0	13.5	15.5	17.0	12.5	14.5	19.0	16.5	17.5	16.0	14.0	15.0
4	17.5	13.0	15.5	17.5	14.0	15.5	18.5	16.5	17.5	14.5	12.5	13.5
5	---	---	---	16.5	14.5	15.5	19.5	15.5	17.0	14.0	10.5	12.5
6	---	---	---	15.5	14.0	14.5	20.5	15.5	17.5	13.0	11.5	12.5
7	---	---	---	17.0	12.5	14.5	19.0	16.0	17.0	14.5	12.0	13.5
8	---	---	---	17.5	13.0	15.5	18.0	16.0	17.0	14.5	12.0	13.5
9	---	---	---	18.5	13.5	16.0	19.0	16.0	17.0	15.5	13.0	14.0
10	---	---	---	19.5	14.5	17.0	20.0	16.0	18.0	16.0	13.5	14.5
11	---	---	---	17.5	14.5	16.0	21.0	16.0	18.0	16.0	14.0	14.5
12	---	---	---	18.0	12.5	15.5	19.0	16.0	20.0	18.0	14.5	16.0
13	18.0	12.5	15.5	19.0	13.5	16.0	23.0	16.5	19.5	19.5	16.0	17.5
14	20.0	13.0	16.5	20.5	14.5	17.5	24.0	18.5	22.0	17.5	14.5	15.0
15	19.0	14.5	16.5	19.5	16.5	18.0	23.0	17.0	20.0	16.5	13.0	14.5
16	15.0	13.5	14.5	20.5	15.5	18.0	23.5	16.0	20.0	16.5	12.0	14.5
17	16.0	12.5	14.0	19.5	14.0	17.0	20.5	18.0	19.0	16.5	12.0	14.5
18	15.5	11.0	13.5	21.0	16.0	18.5	21.0	17.0	19.0	17.0	14.0	15.5
19	15.5	12.0	14.0	19.0	17.5	18.0	21.5	17.0	19.0	18.0	13.5	15.5
20	17.5	13.5	15.0	20.5	16.0	18.5	23.5	17.0	20.0	16.5	14.5	15.5
21	16.0	14.5	15.0	20.5	14.0	17.0	23.5	18.0	22.0	15.5	13.0	14.5
22	18.5	14.0	16.0	21.0	14.0	17.5	21.0	18.5	19.5	13.5	11.5	12.0
23	16.5	14.0	15.5	19.5	16.0	16.5	23.5	18.0	20.5	12.0	9.5	10.5
24	16.5	12.5	15.0	18.5	15.0	16.0	22.5	18.5	20.0	11.0	7.0	9.0
25	15.0	13.5	14.0	20.0	16.0	18.0	22.0	17.0	19.5	10.0	7.0	9.0
26	15.0	13.0	14.0	18.0	15.0	16.5	23.0	18.0	20.5	13.5	9.0	11.0
27	17.5	12.5	15.0	21.5	15.5	18.0	23.0	19.0	21.0	15.0	10.0	13.0
28	17.0	14.0	15.5	22.5	17.5	19.5	21.0	19.0	20.0	13.5	12.5	13.0
29	15.5	13.5	14.5	21.5	17.0	18.5	19.5	18.0	18.5	15.5	13.0	14.0
30	15.0	13.5	14.5	18.5	16.0	17.0	20.0	18.0	19.0	13.5	11.0	12.0
31	---	---	---	18.0	15.0	16.5	21.0	17.0	19.0	---	---	---
MONTH	---	---	---	22.5	12.0	16.5	24.0	15.0	19.0	20.0	7.0	14.0

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.

LOCATION.--Lat 41°34'04", long 77°06'06", Tioga County, on left bank at downstream side of bridge on gravel road between U.S. Route 15 and State Highway 414, 0.7 mi (1.1 km) north of Liberty, and 100 ft (305 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--1.08 mi^2 (2.80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: April 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C July 8; minimum, freezing point Dec. 17.
Turbidity: Maximum daily, 800 JTU June 30; minimum daily, 2 JTU on many days.

Period of record:
Water temperatures: Maximum, 27.0°C July 8, 1973, July 8, 1974; minimum, freezing point Dec. 17, 1974.
Turbidity (1973-74): Maximum daily, 800 JTU June 30, 1974; minimum daily, 2 JTU on many days during 1973-74.

REMARKS.--Sediment data for this station on page 403. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.												
15...	1400	.64	4.5	220	470	14	2.0	4.0	2.2	31	0	25
SEP.												
17...	1530	.55	5.4	100	60	18	2.1	5.1	3.0	--	0	44

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.												
15...	13	6.0	.2	1.2	.00	1.2	--	.10	.47	.57	1.8	.14
SEP.												
17...	17	8.0	.0	.65	.00	.32	.36	.23	.10	.33	.65	.14

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
OCT.											
15...	.10	--	62	43	18	118	7.0	16.5	5.0	--	--
SEP.											
17...	.19	109	--	54	54	158	6.8	16.5	--	10	0

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	8.5	11.0	9.5	7.5	9.0	---	---	---	5.0	2.0	4.0
2	15.5	11.5	13.0	11.	7.5	9.5	---	---	---	5.0	2.0	3.0
3	17.5	13.0	14.5	10.5	7.5	9.0	---	---	---	4.0	3.0	3.5
4	18.5	12.5	15.0	9.0	7.0	7.5	---	---	---	4.5	1.0	3.0
5	17.5	11.0	14.5	8.0	5.0	7.0	---	---	---	3.5	0.5	2.0
6	17.0	8.5	11.5	6.5	4.0	5.0	---	---	---	4.0	2.0	3.0
7	14.5	9.0	11.5	7.0	3.5	5.0	---	---	---	3.5	0.5	2.0
8	17.0	10.5	13.5	7.0	4.0	5.5	---	---	---	2.5	0.5	1.5
9	14.0	11.0	12.5	6.5	3.5	5.0	---	---	---	3.0	1.0	2.0
10	16.5	12.0	14.0	5.5	2.0	3.5	---	---	---	2.5	1.0	2.0
11	16.0	11.0	13.0	6.0	3.0	4.5	---	---	---	4.0	2.0	3.0
12	16.0	10.0	12.5	---	---	---	5.5	3.5	4.5	4.0	1.0	2.0
13	16.0	11.0	13.0	---	---	---	4.5	3.0	4.0	1.5	1.0	1.5
14	14.5	10.5	12.5	---	---	---	5.5	3.0	5.0	2.0	1.0	1.5
15	15.5	9.0	11.5	---	---	---	4.5	2.0	3.0	3.0	2.0	2.5
16	11.0	8.0	9.5	---	---	---	2.5	1.0	2.0	4.5	2.0	3.0
17	10.0	7.5	8.5	---	---	---	1.5	0.0	0.5	3.5	1.5	2.5
18	9.0	7.0	8.5	---	---	---	2.0	0.5	1.0	2.0	1.0	1.5
19	11.0	6.0	8.5	---	---	---	2.5	1.5	2.0	4.0	1.0	2.5
20	11.0	8.5	9.5	---	---	---	3.5	1.5	2.0	3.5	1.5	2.5
21	12.5	8.5	10.0	---	---	---	3.0	1.5	2.0	3.5	1.0	2.5
22	12.5	6.5	9.0	---	---	---	3.5	2.0	2.5	4.0	2.5	3.5
23	13.0	7.0	9.5	---	---	---	7.0	3.0	4.0	4.0	2.5	3.0
24	13.0	7.0	9.5	---	---	---	6.5	2.0	3.0	5.0	3.0	4.0
25	12.5	7.0	9.5	---	---	---	5.5	3.0	4.0	6.0	2.0	3.5
26	12.5	7.0	9.5	---	---	---	7.0	3.5	5.0	5.5	2.0	4.0
27	12.0	8.5	9.5	---	---	---	5.5	3.0	4.0	5.0	4.0	4.5
28	9.0	7.5	8.5	---	---	---	6.5	4.0	5.0	6.0	3.5	4.5
29	10.5	8.5	9.0	---	---	---	6.0	3.5	4.5	7.0	4.5	5.5
30	10.0	9.0	9.5	---	---	---	5.0	2.5	3.5	8.5	3.5	5.5
31	9.5	8.5	9.0	---	---	---	4.5	2.5	4.0	8.5	2.5	4.5
MONTH	18.5	6.0	11.0	---	---	---	---	---	---	8.5	0.5	3.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	2.0	3.0	4.0	2.5	3.5	---	---	---	---	---	---
2	3.5	2.0	2.5	4.0	2.0	3.0	---	---	---	---	---	---
3	3.5	1.0	2.0	---	---	---	---	---	---	---	---	---
4	3.5	0.5	1.5	---	---	---	---	---	---	---	---	---
5	2.0	1.0	1.5	---	---	---	---	---	---	---	---	---
6	4.0	1.0	2.5	---	---	---	---	---	---	---	---	---
7	4.0	1.5	3.0	---	---	---	---	---	---	---	---	---
8	3.5	1.0	2.0	---	---	---	---	---	---	---	---	---
9	2.5	0.5	1.5	---	---	---	---	---	---	---	---	---
10	2.5	1.0	1.5	---	---	---	---	---	---	---	---	---
11	3.5	1.5	2.5	---	---	---	---	---	---	---	---	---
12	4.0	1.5	2.5	---	---	---	---	---	---	---	---	---
13	4.5	1.5	2.5	---	---	---	---	---	---	---	---	---
14	5.0	1.5	2.5	---	---	---	---	---	---	---	---	---
15	3.5	1.0	2.0	---	---	---	---	---	---	---	---	---
16	2.0	1.0	1.5	---	---	---	---	---	---	---	---	---
17	3.5	1.5	2.0	---	---	---	---	---	---	---	---	---
18	5.0	1.0	2.5	---	---	---	---	---	---	---	---	---
19	2.5	1.5	2.0	---	---	---	---	---	---	---	---	---
20	5.5	1.5	3.0	---	---	---	---	---	---	---	---	---
21	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
22	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
23	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
24	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
25	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
26	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
27	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
28	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	20.0	16.0	17.5	---	---	---	17.5	16.0	17.0
2	---	---	---	22.0	14.5	17.5	---	---	---	20.0	16.5	17.5
3	---	---	---	24.0	16.0	19.5	---	---	---	16.5	14.0	15.0
4	---	---	---	25.0	17.0	21.0	---	---	---	15.5	11.5	14.0
5	23.5	12.5	17.5	21.0	17.5	19.5	---	---	---	17.5	9.5	13.0
6	22.0	12.5	16.5	24.0	16.0	19.5	---	---	---	15.0	11.0	13.0
7	23.0	14.0	17.5	25.0	15.5	20.0	---	---	---	16.5	12.0	14.0
8	20.5	15.5	17.5	27.0	16.5	21.0	---	---	---	19.0	11.0	14.5
9	25.0	14.0	19.0	26.5	16.5	21.5	---	---	---	18.5	13.0	15.0
10	26.5	16.0	20.5	25.5	17.5	21.0	---	---	---	18.0	12.5	15.0
11	24.0	16.0	18.5	23.0	15.0	18.5	---	---	---	18.5	13.0	15.5
12	18.5	13.5	16.0	25.0	18.0	22.0	---	---	---	21.5	14.5	17.5
13	20.0	10.0	15.0	26.5	20.0	24.0	---	---	---	21.0	16.0	18.0
14	21.0	12.0	16.5	25.0	18.0	22.0	25.0	18.0	21.0	17.0	12.5	15.5
15	20.5	14.0	16.5	25.0	17.0	22.0	23.5	15.0	18.5	17.5	10.5	13.5
16	17.0	14.5	15.5	23.5	15.5	21.0	24.0	14.5	19.0	17.5	11.0	13.5
17	20.5	13.0	16.0	23.0	13.5	18.0	21.0	17.0	18.5	16.5	9.5	13.0
18	20.0	11.0	15.5	24.5	15.0	18.0	22.0	16.0	18.5	17.0	12.0	14.0
19	20.0	13.0	16.5	---	---	---	22.0	15.5	18.5	18.0	10.5	14.0
20	23.5	15.0	18.5	---	---	---	23.0	15.5	19.5	16.5	13.0	15.0
21	20.0	14.5	17.0	---	---	---	24.0	16.5	20.0	15.0	12.5	14.0
22	24.5	15.0	19.0	---	---	---	21.5	16.5	19.0	14.0	11.0	12.0
23	18.0	14.5	16.5	---	---	---	24.0	18.5	20.5	12.0	8.5	10.0
24	23.5	13.5	17.5	---	---	---	22.0	17.0	19.0	13.0	6.5	9.0
25	18.0	14.5	16.0	---	---	---	21.0	14.0	17.5	12.0	8.0	9.5
26	17.5	13.5	15.0	---	---	---	22.5	16.0	19.0	15.0	8.0	10.5
27	21.0	12.5	16.5	---	---	---	22.0	18.0	20.0	16.5	9.0	12.0
28	20.0	14.0	16.0	---	---	---	20.0	16.5	18.0	13.5	12.0	13.0
29	17.5	14.0	15.0	---	---	---	19.0	16.0	17.5	16.5	11.5	14.0
30	18.5	12.5	15.5	---	---	---	20.5	16.0	17.5	13.0	9.5	11.0
31	---	---	---	---	---	---	21.0	15.0	18.0	---	---	---
MONTH	26.5	10.0	17.0	---	---	---	---	---	---	21.5	6.5	14.0

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	5	4	3	3	9	10	10	30	15	2	75
2	3	4	3	3	3	3	260	6	15	6	2	6
3	4	6	3	3	3	40	9	5	10	6	3	30
4	3	4	3	3	4	15	9	4	10	5	4	3
5	4	3	330	3	5	20	8	4	10	6	3	4
6	3	3	8	3	5	5	7	4	8	5	2	3
7	3	3	5	3	4	4	6	6	8	4	2	2
8	2	3	4	3	4	200	5	6	7	4	2	2
9	3	3	40	3	5	60	5	10	10	4	2	2
10	3	3	5	3	5	9	6	8	300	4	2	2
11	3	3	4	3	4	8	6	6	10	3	2	2
12	3	3	3	6	3	5	6	95	8	3	2	40
13	60	3	3	4	3	4	6	10	6	2	2	20
14	15	3	4	3	3	3	300	6	9	20	2	10
15	3	5	3	3	5	3	15	20	65	20	2	4
16	2	6	3	3	5	4	10	20	65	4	2	4
17	2	5	3	3	4	4	8	30	8	3	4	3
18	2	4	5	3	3	7	6	25	5	3	3	4
19	2	4	3	3	3	4	6	25	4	3	3	3
20	3	4	40	3	6	4	6	25	4	3	3	110
21	3	3	40	40	7	20	6	20	100	2	3	65
22	3	3	5	6	150	7	6	20	10	2	3	6
23	3	3	4	20	10	6	10	20	4	15	4	3
24	3	20	3	8	6	5	6	15	6	15	4	3
25	3	70	3	6	4	8	6	40	5	3	3	2
26	3	9	30	8	8	8	8	20	9	2	3	2
27	3	5	25	30	7	8	9	15	4	2	3	2
28	3	15	5	40	3	6	8	15	75	2	15	3
29	400	6	4	7	---	7	8	10	30	3	7	4
30	15	6	6	8	---	10	40	10	400	3	60	3
31	5	---	3	4	---	15	---	20	---	2	4	---

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'43", long 77°09'02", Lycoming County, on left bank 100 ft (305 m) upstream from confluence with Steam Valley Run, near intersection of U.S. Route 15 and State Highway 284.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: March 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C Aug. 13, 14; minimum, freezing point on several days during December to March.
Turbidity: Maximum daily, 1,300 JTU June 30; minimum daily, 1 JTU on several days during October, May, and June.

Period of record:
Water temperatures: Maximum, 27.5°C Aug. 9, 1973; minimum, freezing point on several days during December 1973, January to March 1974.
Turbidity: Maximum daily, 1,300 JTU June 30; 1974; minimum daily, 1 JTU on many days each year.

REMARKS.--Sediment data for this station on page 406. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 15...	1630	9.1	2.7	40	20	16	2.1	6.5	1.7	39	0
SEP. 17...	1410	6.2	2.2	40	30	20	2.2	7.5	1.6	--	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 15...	32	12	10	.2	.39	.00	.39	--	.06	.10	.17
SEP. 17...	52	15	12	.1	.17	.00	.17	.10	.08	.06	.14

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 15...	.56	.12	.12	--	70	49	17	135	7.6	15.0	1.6
SEP. 17...	.31	.09	.07	100	--	59	59	100	7.8	17.5	--

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	10.5	12.5	9.5	7.5	9.0	6.0	3.5	5.0	3.0	1.0	2.0
2	15.0	13.0	13.5	11.0	7.5	9.0	5.0	2.0	3.5	2.0	0.0	0.5
3	18.0	14.5	16.0	10.5	7.5	9.5	6.0	2.5	4.0	4.0	1.5	2.0
4	18.5	14.0	16.0	9.5	7.0	7.5	7.5	4.5	6.5	---	---	---
5	18.0	14.0	16.0	8.0	6.5	7.0	10.5	7.5	9.0	---	---	---
6	16.0	10.5	13.0	6.5	5.0	5.5	8.5	5.5	6.5	---	---	---
7	14.0	10.5	12.5	6.5	4.5	5.5	5.5	5.0	5.5	---	---	---
8	16.5	12.0	14.0	6.5	4.0	5.5	5.0	4.5	4.5	---	---	---
9	14.0	12.5	13.5	6.5	4.0	5.5	4.5	3.0	3.5	2.0	1.5	1.5
10	17.0	13.5	14.5	5.0	2.5	4.0	5.5	4.0	4.5	2.0	1.5	2.0
11	16.5	12.0	14.0	5.0	3.0	4.0	4.0	3.5	3.5	3.0	2.0	2.5
12	16.0	12.0	13.5	6.5	4.0	5.0	4.0	2.5	3.5	3.5	2.0	2.5
13	16.5	12.5	14.5	8.5	5.5	7.0	3.5	2.0	2.5	2.0	2.0	2.0
14	15.5	12.5	14.0	11.0	8.5	9.5	4.5	2.5	4.0	2.0	1.5	2.0
15	15.0	10.0	12.5	12.0	8.5	10.5	2.5	1.5	2.0	3.5	1.5	2.5
16	13.0	9.5	11.0	11.0	6.5	9.0	1.5	0.5	1.0	4.0	2.0	3.0
17	11.0	8.5	9.5	6.0	4.5	5.5	0.5	0.0	0.0	4.0	1.5	2.0
18	10.0	9.0	9.5	5.5	3.5	4.5	0.5	0.0	0.5	2.0	1.5	2.0
19	12.0	7.0	9.5	6.5	5.0	5.5	0.5	0.0	0.5	2.5	2.0	2.0
20	12.0	9.0	10.5	8.0	5.0	6.5	1.0	0.5	0.5	---	---	---
21	14.0	10.0	11.5	7.0	5.5	6.5	1.5	1.0	1.0	---	---	---
22	13.0	7.5	10.0	9.5	7.0	8.0	2.0	1.0	1.5	---	---	---
23	13.0	7.5	10.0	7.5	5.0	6.5	3.0	1.5	2.5	---	---	---
24	13.5	7.5	10.5	7.5	5.5	6.5	2.0	0.5	1.5	---	---	---
25	13.0	7.5	10.0	8.5	7.0	8.0	2.5	1.0	1.5	---	---	---
26	13.0	7.5	10.0	7.0	6.5	6.5	3.5	2.5	3.0	---	---	---
27	13.0	9.0	10.5	9.0	6.5	8.0	4.5	2.5	3.5	---	---	---
28	10.5	9.0	9.5	10.0	8.0	9.0	5.0	3.0	4.0	---	---	---
29	10.0	9.5	9.5	7.5	5.0	6.5	4.0	2.5	3.5	---	---	---
30	10.5	9.0	9.5	7.0	4.0	5.5	4.0	1.5	2.5	---	---	---
31	9.5	7.5	8.5	---	---	---	2.0	1.0	2.0	---	---	---
MONTH	18.5	7.0	12.0	12.0	2.5	7.0	10.5	0.0	3.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	3.0	1.5	2.0	6.5	2.0	4.0	---	---	---
2	---	---	---	2.5	0.5	2.0	6.5	2.5	4.0	---	---	---
3	---	---	---	4.5	2.5	3.5	8.5	2.5	5.5	---	---	---
4	---	---	---	7.5	3.0	5.0	11.5	7.0	9.0	---	---	---
5	0.5	0.0	0.0	7.5	3.5	5.5	9.5	7.0	8.0	---	---	---
6	0.5	0.0	0.5	6.0	2.0	4.0	7.0	4.5	6.0	---	---	---
7	1.0	0.0	0.5	9.0	5.0	6.5	9.0	3.0	6.0	10.5	7.0	8.5
8	1.5	0.0	0.5	5.5	2.0	3.5	7.0	2.0	5.0	9.5	5.5	8.0
9	0.5	0.0	0.5	3.5	2.5	2.5	6.0	2.0	2.5	10.0	8.5	9.0
10	0.5	0.0	0.5	6.0	2.5	3.5	9.0	2.0	4.0	11.5	8.5	10.0
11	0.5	0.0	0.5	5.0	1.5	3.0	9.0	2.0	5.0	16.0	7.0	11.0
12	2.0	0.0	1.0	5.0	1.5	3.0	9.0	4.0	6.5	12.5	9.5	11.5
13	4.0	0.5	1.5	3.0	0.5	1.5	12.5	6.5	9.0	11.5	9.0	10.0
14	2.5	0.5	1.0	5.0	0.5	2.0	13.0	7.0	10.0	16.5	9.0	12.5
15	2.0	0.5	0.5	3.5	0.5	2.0	9.5	6.5	8.0	17.5	12.0	14.5
16	0.5	0.5	0.5	6.5	2.5	3.5	11.0	5.0	7.5	17.0	10.5	14.0
17	3.0	0.5	1.5	2.5	0.0	2.0	12.5	5.0	8.5	[illegible]	[illegible]	[illegible]
18	4.0	0.5	1.5	5.0	0.0	2.0	12.0	5.0	9.0	[illegible]	[illegible]	[illegible]
19	1.5	0.5	1.0	5.0	1.5	3.0	12.5	7.5	9.5	[illegible]	[illegible]	[illegible]
20	[illegible]	0.5	[illegible]	7.5	1.0	4.0	13.0	6.0	8.5	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
30	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SUSQUEHANNA RIVER BASIN

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	14.0	16.0	21.5	15.0	18.0	24.5	16.5	20.0	20.0	17.0	18.5
2	20.0	12.5	16.0	23.0	14.0	18.5	25.5	17.0	21.0	20.5	16.0	17.5
3	19.5	13.0	16.0	24.5	17.0	21.0	23.0	19.5	21.0	17.5	14.5	16.0
4	21.0	13.0	17.0	26.0	18.5	22.5	22.0	19.5	20.5	16.0	13.5	14.5
5	22.0	14.5	18.0	22.0	18.5	20.5	22.0	17.0	19.5	18.5	11.5	15.0
6	21.0	14.0	17.5	24.5	17.0	20.5	24.0	16.5	20.0	16.5	13.0	15.0
7	22.5	15.0	18.0	25.5	16.5	21.0	24.0	17.0	20.0	18.0	14.0	16.0
8	20.5	16.0	18.0	26.0	17.5	22.0	22.0	16.5	19.5	20.0	14.0	17.0
9	24.5	16.0	20.0	26.0	18.5	22.5	23.5	18.0	20.0	20.0	15.5	17.5
10	26.5	17.5	21.5	24.0	20.0	22.0	24.0	17.5	20.5	20.5	15.5	17.5
11	22.5	17.0	19.5	22.5	17.0	19.5	25.0	16.5	20.0	20.0	16.0	18.0
12	19.5	15.0	17.0	24.0	15.0	19.0	23.5	16.5	19.5	23.0	17.0	20.0
13	20.5	13.0	16.5	25.0	15.5	20.0	27.0	18.5	22.0	22.5	18.5	20.5
14	22.0	13.5	17.5	26.5	17.0	21.5	27.0	19.5	22.5	19.5	15.5	17.0
15	19.5	16.0	17.5	25.0	20.0	22.0	26.0	16.5	21.0	19.5	13.0	15.5
16	18.0	16.0	16.5	24.0	17.5	20.5	25.5	16.0	21.0	19.0	13.0	16.0
17	20.5	14.5	17.0	23.5	16.0	19.5	22.5	19.0	20.5	18.5	12.5	15.5
18	20.5	13.5	17.0	25.0	17.5	21.0	23.5	18.0	20.5	18.5	14.5	16.5
19	20.5	15.0	17.5	25.5	19.0	21.5	24.5	17.5	20.5	19.0	14.0	16.5
20	23.5	16.5	19.5	22.0	17.0	19.5	25.5	17.0	21.0	18.0	16.0	17.0
21	20.5	16.5	18.5	24.0	14.5	19.0	26.0	17.5	21.5	16.5	13.0	15.0
22	24.5	17.0	20.5	25.0	15.0	19.5	24.0	17.5	21.0	14.0	11.0	12.5
23	19.5	16.0	17.5	18.5	16.5	17.5	26.0	19.5	22.0	12.5	9.5	11.0
24	23.0	14.0	18.0	19.0	16.0	17.0	24.5	18.5	21.0	13.5	7.5	10.5
25	17.5	15.5	16.5	21.5	16.5	18.5	25.0	16.0	20.0	12.5	9.0	10.5
26	17.0	14.5	15.5	19.0	17.0	17.5	26.0	17.5	21.5	15.5	10.0	12.5
27	22.5	14.0	18.0	25.0	17.0	20.5	24.5	20.0	22.0	17.0	11.0	13.5
28	21.0	16.0	17.5	26.0	18.5	22.0	21.0	18.0	19.5	16.0	14.0	15.0
29	17.5	15.0	16.5	25.0	18.5	21.0	20.5	17.0	18.0	17.0	14.0	16.0
30	18.0	14.5	16.0	24.0	18.0	21.0	21.0	17.5	19.0	13.5	12.0	12.5
31	---	---	---	24.0	17.5	20.5	22.0	17.0	19.0	---	---	---
MONTH	26.5	12.5	17.5	26.5	14.0	20.0	27.0	16.0	20.5	23.0	7.5	15.5

TURBIDITY (JTU) WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	6	6	7	6	15	10	25	65	110	2	260
2	2	6	6	7	6	10	260	5	9	7	1	10
3	3	6	5	6	6	10	65	3	3	6	4	65
4	2	5	7	6	5	10	20	3	1	50	20	10
5	5	4	1000	6	6	30	1	3	1	10	2	8
6	2	4	50	6	3	6	6	6	1	1	2	5
7	2	3	6	6	3	6	5	3	1	5	4	5
8	1	3	6	10	3	100	6	3	1	3	2	5
9	1	3	25	5	4	65	3	15	1	5	2	5
10	1	3	10	6	4	6	6	10	75	5	2	5
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'39", long 77°09'03", Lycoming County, on right bank at upstream end of bridge on State Highway 284, 500 ft (152 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--5.34 mi^2 (13.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: February 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C July 8, Aug. 13, 14; minimum, 0.5°C on many days during January and February.
Turbidity: Maximum daily, 3,800 JTU June 30; minimum daily, 1 JTU on several days during October.

Period of record:
Water temperatures: Maximum, 25.0°C July 8, Aug. 11, 1973; minimum, 0.5°C on many days each year.
Turbidity: Maximum daily, 3,800 JTU June 30, 1974; minimum daily, 1 JTU on many days each year.

REMARKS.--Sediment data for this station on page 409. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 15...	1540	2.5	3.3	40	20	6.8	1.2	3.5	.9	20	0
SEP. 17...	1445	1.7	4.2	20	5	12	1.4	6.0	1.0	--	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 15...	16	5.6	6.6	.1	.04	.00	.04	--	.07	.08	.15
SEP. 17...	30	6.8	10	.1	.33	.00	.33	.35	.07	.00	.03

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 15...	.19	.00	.00	--	38	22	6	67	7.4	14.0	1.3
SEP. 17...	.36	.02	.02	71	--	36	36	118	6.2	16.5	--

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	9.5	11.5	10.5	9.0	10.0	7.0	5.0	6.0	5.0	3.0	4.5
2	13.0	12.0	12.5	11.0	9.0	10.0	6.0	4.5	5.0	3.5	2.0	3.0
3	16.0	13.0	14.0	11.0	8.5	9.5	6.5	5.0	5.5	3.0	2.5	3.0
4	16.5	13.0	14.0	9.0	8.0	8.5	8.0	6.5	7.5	3.5	1.5	2.5
5	16.0	12.0	14.0	8.0	7.0	7.5	10.0	8.5	9.0	2.0	0.5	1.5
6	14.5	10.5	12.0	6.5	5.5	6.0	8.5	7.0	7.5	2.5	2.0	2.0
7	13.0	10.5	11.5	7.0	5.5	6.0	7.0	7.0	7.0	3.0	1.0	2.0
8	15.5	11.0	13.0	7.0	5.5	6.5	7.0	6.5	6.5	1.0	0.5	0.5
9	13.5	12.0	12.5	7.0	5.0	6.0	6.5	5.0	6.0	1.0	0.5	1.0
10	16.0	12.5	13.5	5.5	4.0	4.5	7.0	6.0	7.0	2.0	0.5	1.5
11	15.5	12.0	13.0	5.5	4.0	5.0	6.0	5.5	5.5	2.5	2.0	2.0
12	15.0	11.5	13.0	7.0	5.0	6.0	6.0	5.0	5.5	2.0	0.5	1.0
13	15.5	12.0	13.5	8.5	6.5	7.5	5.5	4.0	5.0	1.0	0.5	1.0
14	15.0	11.0	12.5	11.0	8.5	9.0	6.0	4.5	5.5	1.0	0.5	1.0
15	14.5	10.5	12.0	11.0	8.5	10.0	4.5	3.0	4.0	2.0	0.5	1.0
16	12.0	9.0	10.5	10.5	6.5	8.5	2.5	1.5	2.0	3.5	2.0	2.5
17	10.5	9.0	9.5	6.5	5.0	6.0	1.5	1.0	1.0	3.5	0.5	2.0
18	9.5	8.0	9.0	6.0	4.0	5.0	1.0	1.0	1.0	1.0	0.5	0.5
19	11.5	7.5	9.0	7.0	5.5	6.5	2.0	1.0	1.5	1.0	0.5	0.5
20	11.0	9.0	10.0	8.0	5.5	6.5	4.0	1.0	2.0	1.5	0.5	1.5
21	13.0	9.0	10.5	7.0	5.5	6.5	4.5	4.0	4.0	2.5	1.0	2.0
22	12.5	7.5	9.5	9.0	7.0	8.0	5.0	3.5	4.5	4.0	2.5	3.5
23	12.5	7.5	9.5	8.0	5.5	7.0	5.5	4.5	5.0	4.5	4.0	4.0
24	12.5	7.5	9.5	8.5	6.5	7.5	4.5	3.0	3.5	4.5	3.5	4.0
25	12.5	7.5	9.5	9.0	7.0	8.5	5.0	3.5	4.0	4.5	2.5	3.5
26	12.5	7.5	10.0	7.5	7.0	7.0	6.0	5.0	5.5	4.5	2.5	3.5
27	12.5	9.0	10.0	9.0	7.5	8.5	7.0	5.5	6.0	6.0	4.5	5.0
28	9.5	8.5	9.0	10.0	8.5	9.5	6.5	5.5	6.0	5.5	4.5	5.0
29	12.0	9.5	10.0	8.5	7.0	7.5	6.5	5.0	6.0	6.0	5.0	5.5
30	11.5	9.5	11.0	7.5	6.5	7.0	6.0	4.0	4.5	7.0	5.0	6.0
31	10.5	9.0	10.0	---	---	---	5.0	3.5	4.5	7.0	4.5	5.5
MONTH	16.5	7.5	11.0	11.0	4.0	7.5	10.0	1.0	5.0	7.0	0.5	2.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.0	4.0	4.0	3.5	3.5	6.0	3.0	4.0	14.0	9.0	11.5
2	4.0	2.5	3.0	3.5	2.0	3.0	7.0	4.0	4.5	11.5	7.5	9.0
3	2.5	1.5	2.5	5.0	3.5	4.0	8.5	4.0	6.0	9.5	8.5	9.0
4	2.0	0.5	1.0	---	---	---	9.5	7.0	8.0	11.0	7.0	8.5
5	0.5	0.5	0.5	---	---	---	8.5	7.0	7.5	11.0	6.0	8.5
6	0.5	0.5	0.5	---	---	---	7.0	5.0	6.0	9.5	7.0	8.0
7	2.0	0.5	1.5	---	---	---	8.5	4.0	6.5	9.0	6.5	7.5
8	2.0	0.5	1.5	---	---	---	7.0	3.0	5.0	8.5	5.5	7.5
9	1.0	0.5	0.5	---	---	---	4.5	3.0	3.5	9.0	8.0	8.5
10	0.5	0.5	0.5	---	---	---	7.0	2.5	4.5	10.0	8.0	9.0
11	1.0	0.5	0.5	---	---	---	8.0	3.5	5.5	13.0	6.5	10.0
12	2.5	0.5	1.5	---	---	---	8.5	5.0	7.0	11.5	9.0	10.5
13	3.5	1.5	2.0	---	---	---	11.0	7.0	8.5	9.5	8.0	9.0
14	2.5	0.5	2.0	---	---	---	11.5	7.0	9.5	13.0	8.5	10.5
15	1.0	0.5	0.5	---	---	---	9.0	6.5	7.5	14.0	10.0	12.0
16	1.0	0.5	0.5	---	---	---	9.5	5.5	7.5	14.0	9.5	12.0
17	2.0	0.5	1.0	---	---	---	10.5	5.5	8.0	15.0	11.5	13.0
18	2.0	0.5	1.0	---	---	---	10.0	6.0	8.0	15.5	11.5	13.0
19	1.5	0.5	1.5	---	---	---	10.5	7.0	8.5	15.0	11.0	12.5
20	3.5	1.5	2.0	7.0	2.0	4.0	11.0	5.0	7.5	14.0	9.0	11.5
21	4.0	0.5	2.0	4.0	2.5	3.5	12.0	6.0	9.0	15.5	9.0	12.0
22	3.5	1.0	2.0	5.5	2.0	3.5	10.5	9.0	9.5	16.0	12.0	13.5
23	3.5	1.5	2.5	7.0	2.5	4.5	9.5	7.0	9.0	16.0	12.5	13.5
24	3.5	1.5	2.5	6.0	1.5	4.0	7.5	6.5	7.0	15.5	11.5	13.0
25	2.5	1.5	2.0	5.0	1.0	2.0	11.0	5.0	7.5	12.0	10.0	11.0
26	2.5	0.5	1.5	5.5	1.0	3.0	12.5	7.0	9.0	13.0	9.5	11.0
27	3.5	0.5	1.5	6.5	1.5	3.5	13.0	6.5	9.5	12.0	9.0	10.5
28	4.0	2.0	3.0	5.5	2.5	4.0	15.0	8.5	11.5	14.0	9.0	11.5
29	---	---	---	2.5	1.0	1.5	16.5	11.5	13.5	13.0	11.0	11.5
30	---	---	---	2.0	1.0	1.5	12.5	12.0	12.0	16.5	11.5	13.5
31	---	---	---	3.5	1.5	3.0	---	---	---	13.5	12.5	13.0
MONTH	4.5	0.5	1.5	---	---	---	16.5	2.5	7.5	16.5	5.5	11.0

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	12.5	13.5	16.5	13.5	15.0	22.0	15.0	18.0	17.5	15.0	16.0
2	17.0	11.5	13.5	17.0	12.5	14.5	22.5	16.0	18.5	18.5	14.5	16.0
3	16.5	12.0	13.5	18.0	14.0	16.0	21.0	17.5	19.0	14.5	13.0	14.0
4	17.5	12.0	14.5	20.0	15.0	17.0	20.0	17.0	18.5	---	---	---
5	19.5	12.5	15.5	17.5	15.5	16.0	20.5	15.5	17.5	17.0	11.0	13.5
6	18.0	12.5	15.0	19.5	14.5	16.5	21.5	15.0	18.0	15.0	12.5	13.5
7	19.5	13.5	15.5	20.5	14.0	17.0	22.0	15.5	18.0	16.5	13.0	14.5
8	18.0	14.0	15.5	21.0	15.0	17.5	20.0	15.5	17.5	18.5	13.0	15.0
9	21.0	14.0	17.0	22.0	15.5	18.0	21.0	17.0	18.5	18.0	14.0	15.5
10	23.5	15.0	18.5	20.5	16.5	18.0	22.0	16.5	18.5	---	---	---
11	20.0	14.5	17.0	19.5	14.5	16.5	22.0	16.0	18.5	---	---	---
12	17.0	13.0	14.5	20.0	13.0	16.0	20.5	15.5	18.0	---	---	---
13	18.0	11.5	14.5	21.0	13.5	16.5	24.0	17.0	20.0	---	---	---
14	19.0	12.0	15.0	22.5	14.5	18.0	24.0	18.0	20.5	---	---	---
15	17.0	14.0	15.0	22.0	16.5	19.0	23.5	16.0	19.0	---	---	---
16	15.5	14.0	15.0	21.5	16.0	18.0	22.5	16.0	19.0	---	---	---
17	17.0	13.5	15.0	21.0	13.5	16.5	20.5	17.5	19.0	---	---	---
18	17.5	12.0	14.5	22.0	15.5	18.0	21.5	17.0	18.5	---	---	---
19	17.5	13.0	15.5	22.5	16.5	19.0	21.5	16.5	19.0	---	---	---
20	20.5	14.5	17.0	20.0	15.0	17.5	21.5	16.5	19.0	---	---	---
21	18.0	14.5	16.0	21.0	13.0	16.5	23.0	17.0	19.5	---	---	---
22	21.5	15.0	17.5	22.0	13.0	17.0	21.5	17.0	19.5	---	---	---
23	17.0	14.0	15.5	16.5	15.0	15.5	22.5	17.5	19.5	---	---	---
24	20.0	13.0	16.0	17.5	14.5	15.5	21.5	16.0	18.0	---	---	---
25	16.0	14.0	15.0	19.0	14.5	16.5	21.5	17.0	19.0	---	---	---
26	15.5	13.5	14.0	16.5	15.0	16.0	22.5	19.0	20.0	---	---	---
27	19.5	13.0	15.5	22.0	15.5	18.0	21.5	18.5	19.5	---	---	---
28	17.0	14.0	15.0	23.5	16.0	19.0	18.5	17.0	17.5	---	---	---
29	16.0	13.5	14.5	21.0	16.5	18.0	18.5	16.5	17.5	---	---	---
30	17.0	13.0	14.5	21.5	16.5	18.5	19.5	16.0	17.0	12.5	10.5	11.5
31	---	---	---	21.0	16.0	18.0	20.5	17.0	18.0	---	---	---
MONTH	23.5	11.5	15.5	23.5	12.5	17.0	24.0	15.0	18.5	---	---	---

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	5	4	3	4	7	7	15	230	110	7	1700
2	2	4	4	3	4	5	25	60	3	130	7	40
3	2	4	4	2	4	5	20	9	3	190	7	160
4	2	3	5	2	6	3	10	5	7	120	15	10
5	2	3	100	2	5	20	5	8	20	75	8	7
6	2	6	7	2	8	5	3	8	4	15	6	7
7	2	5	4	2	10	5	3	5	10	15	6	7
8	2	7	2	20	2	35	3	4	2	85	6	7
9	2	3	5	3	2	20	2	6	2	340	6	7
10	1	3	4	2	2	5	15	5	40	65	6	7
11	1	3	4	2	2	4	20	3	15	90	6	5
12	1	3	3	2	3	3	3	200	25	10	6	1400
13	1	4	4	2	2	3	3	25	3	10	6	220
14	1	3	3	2	2	3	120	15	2	15	6	80
15	1	2	2	2	3	3	7	5	190	55	6	10
16	1	2	2	2	2	2	3	5	650	15	6	9
17	2	2	4	2	2	2	8	5	6	10	6	9
18	3	2	5	10	2	2	4	3	8	10	6	9
19	4	9	4	10	2	2	3	2	5	10	7	9
20	1	4	30	8	2	2	3	2	5	6	5	700
21	1	3	15	25	2	15	3	3	3	6	5	1100
22	1	2	3	8	120	3	8	9	3	6	5	40
23	2	2	2	7	5	2	15	4	3	55	4	10
24	3	5	2	6	2	2	5	15	3	170	5	10
25	2	45	2	6	2	3	3	2	100	15	4	9
26	2	5	2	4	2	3	4	2	6	7	4	9
27	2	8	3	10	2	3	4	2	6	6	4	8
28	2	5	4	30	2	3	3	6	270	6	7	8
29	420	4	3	7	---	3	3	2	70	25	7	130
30	15	3	3	5	---	7	140	2	3800	7	1700	90
31	5	---	3	4	---	6	---	5	---	15	40	---

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, on right bank just downstream from bridge on State Highway 284, 0.7 mi (1.1 km) upstream from Blacks Creek, 1.7 mi (2.7 km) upstream from confluence with Texas Creek, and 5 mi (8 km) northeast of English Center.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: April 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C Aug. 13, 14; minimum, 0.5°C on many days.
Turbidity: Maximum daily, 1,200 JTU June 30; minimum daily, 1 JTU Oct 8, 9, 19, 28.

Period of record:
Water temperatures: Maximum, 27.5°C July 8, Aug. 9, 1973; minimum, 0.5°C on many days during 1973-74.
Turbidity: Maximum daily, 1,200 JTU June 30, 1974; minimum daily, 1 JTU on many days each year.

REMARKS.--Sediment data for this station on page 412. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 15...	1500	40	2.0	40	6500	12	1.8	5.0	1.4	32	0
SEP. 17...	1315	10	2.3	20	10	14	1.6	6.0	1.4	--	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 15...	26	10	8.1	.2	.13	.00	.13	--	--	.13	.14
SEP. 17...	40	12	9.1	.2	.17	.00	.05	.08	.05	.07	.12

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 15...	.27	.06	.01	--	63	37	11	108	7.5	14.5	1.6
SEP. 17...	.17	.05	.03	76	--	42	42	152	7.8	16.0	--

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.5	8.5	9.0	6.5	4.5	5.5	4.0	2.0	3.5
2	---	---	---	11.0	8.0	9.5	4.5	3.0	4.0	2.0	1.0	1.5
3	17.0	14.5	15.5	10.5	8.0	9.5	5.0	3.0	4.5	2.0	2.0	2.0
4	17.5	14.5	16.0	9.0	7.0	8.0	7.5	5.0	6.0	2.5	0.5	1.5
5	17.5	14.0	16.0	7.5	6.5	7.0	10.5	7.5	9.0	0.5	0.5	0.5
6	15.5	12.0	13.5	6.5	5.0	5.5	8.5	6.5	7.0	2.0	0.5	1.0
7	14.0	11.5	13.0	6.5	5.0	5.5	6.5	5.5	6.0	2.0	0.5	1.0
8	16.0	12.5	14.0	6.5	6.5	5.5	6.0	5.0	5.5	0.5	0.5	0.5
9	14.0	13.0	13.5	6.0	4.0	5.0	5.0	4.0	4.5	0.5	0.5	0.5
10	16.5	14.0	14.5	5.0	3.0	4.0	6.0	5.0	5.5	0.5	0.5	0.5
11	16.0	13.0	14.0	5.0	3.5	4.5	5.0	4.0	4.5	0.5	0.5	0.5
12	16.0	12.5	14.0	6.5	4.5	5.5	4.5	3.5	4.0	0.5	0.5	0.5
13	16.0	13.0	14.5	8.5	6.0	7.5	4.0	2.5	3.5	0.5	0.5	0.5
14	15.0	12.5	13.5	11.0	8.5	9.5	5.0	4.0	4.5	0.5	0.5	0.5
15	14.5	11.0	12.5	11.5	9.0	10.0	3.5	2.0	3.0	0.5	0.5	0.5
16	12.5	10.0	11.0	11.0	7.0	9.0	2.0	0.5	1.5	2.0	0.5	1.0
17	11.0	9.0	10.0	6.5	5.0	5.5	0.5	0.5	0.5	2.0	0.5	1.0
18	10.5	9.0	9.5	5.5	4.0	5.0	0.5	0.5	0.5	0.5	0.5	0.5
19	11.0	8.0	9.5	6.5	5.5	6.0	0.5	0.5	0.5	0.5	0.5	0.5
20	12.0	9.5	10.5	7.0	5.5	6.5	0.5	0.5	0.5	0.5	0.5	0.5
21	13.0	10.0	11.0	7.0	6.0	6.5	2.0	1.0	2.0	1.5	0.5	1.0
22	12.5	8.5	10.0	9.0	7.0	8.0	3.0	1.5	2.0	3.5	1.5	2.5
23	12.5	8.5	10.0	7.5	5.5	6.5	3.5	2.5	3.0	3.5	2.5	3.0
24	12.5	8.0	10.0	7.5	6.0	7.0	3.0	1.5	2.0	3.5	2.0	2.5
25	12.0	8.0	10.0	8.5	7.0	8.0	3.0	1.5	2.0	3.5	1.5	2.5
26	12.0	8.0	10.0	7.0	7.0	7.0	4.0	3.5	4.0	3.5	1.0	2.5
27	12.0	9.5	10.5	9.0	7.0	8.0	5.0	3.5	4.5	6.0	3.5	4.5
28	10.5	9.0	9.5	10.0	8.5	9.0	5.5	4.0	4.5	4.0	2.5	3.5
29	10.5	10.0	10.0	8.5	6.0	7.0	5.0	3.5	4.5	5.5	4.0	4.5
30	10.5	9.0	10.0	7.0	5.0	6.0	5.0	2.5	3.0	6.0	4.0	5.0
31	9.5	8.5	9.0	---	---	---	3.5	2.0	2.5	6.5	3.0	4.5
MONTH	17.5	8.0	12.0	11.5	3.0	7.0	10.5	0.5	3.5	6.5	0.5	2.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.0	2.5	3.5	2.5	2.5	5.5	2.0	3.5	16.0	10.5	13.0
2	2.5	1.5	2.0	2.5	1.5	2.0	7.0	2.5	4.0	12.5	7.5	10.0
3	2.0	0.5	1.0	5.0	2.5	3.5	9.0	2.5	5.0	10.0	8.5	9.5
4	0.5	0.5	0.5	7.0	4.0	5.5	10.5	6.5	8.5	13.0	7.5	10.0
5	0.5	0.5	0.5	7.0	4.5	5.5	9.0	6.5	7.5	12.5	6.0	9.0
6	0.5	0.5	0.5	6.5	2.0	4.5	7.0	4.0	5.5	10.0	7.5	8.5
7	0.5	0.5	0.5	9.0	5.5	6.5	8.5	2.5	5.5	10.0	6.5	8.0
8	0.5	0.5	0.5	6.5	3.0	4.5	7.0	2.0	5.5	9.0	5.0	7.5
9	0.5	0.5	0.5	4.0	3.0	3.5	3.5	2.0	2.5	9.0	8.5	8.5
10	0.5	0.5	0.5	6.5	3.5	4.5	8.0	2.0	4.5	11.5	8.5	9.5
11	0.5	0.5	0.5	5.5	2.0	3.5	8.0	2.0	5.5	15.0	7.0	11.0
12	0.5	0.5	0.5	5.5	2.0	4.0	9.0	4.0	6.5	12.0	9.0	11.0
13	0.5	0.5	0.5	4.5	0.5	2.0	11.5	6.5	8.5	11.0	8.5	9.5
14	0.5	0.5	0.5	5.5	0.5	2.5	12.0	7.0	9.5	---	8.5	11.5
15	0.5	0.5	0.5	5.0	0.5	2.5	9.5	6.5	7.5	---	---	---
16	0.5	0.5	0.5	5.0	3.5	4.0	10.5	5.0	7.5	---	---	---
17	0.5	0.5	0.5	3.5	1.0	2.5	11.5	5.0	8.0	---	---	---
18	0.5	0.5	0.5	6.0	0.5	2.5	11.0	5.5	8.5	---	---	---
19	0.5	0.5	0.5	5.5	2.0	3.5	11.5	7.0	9.0	---	---	---
20	2.0	0.5	1.0	7.0	1.5	4.0	12.0	4.5	8.5	---	---	---
21	3.0	0.5	1.5	4.0	2.0	3.0	13.0	6.0	9.5	---	---	---
22	2.0	0.5	1.5	5.0	1.0	2.5	11.0	9.0	10.0	17.5	13.0	15.0
23	2.5	0.5	1.5	6.5	1.5	4.0	10.0	7.5	9.0	17.0	14.0	15.5
24	3.0	0.5	1.5	7.0	2.0	4.5	7.5	6.5	7.0	17.0	12.5	14.0
25	2.0	0.5	1.5	5.0	0.5	2.0	12.0	5.0	8.5	13.0	11.0	12.0
26	1.5	0.5	0.5	5.5	0.5	2.5	15.0	7.0	10.5	14.0	10.5	12.0
27	2.0	0.5	1.0	7.0	0.5	3.5	15.0	7.0	11.0	13.0	10.0	11.5
28	3.0	1.0	2.0	6.0	3.0	4.0	16.5	9.0	13.0	16.5	9.5	12.5
29	---	---	---	3.0	0.5	1.0	18.5	12.5	15.0	13.0	12.0	12.5
30	---	---	---	1.0	0.5	0.5	14.0	12.5	13.0	---	---	---
31	---	---	---	2.5	0.5	1.5	---	---	---	---	---	---
MONTH	3.5	0.5	1.0	9.0	0.5	3.5	18.5	2.0	8.0	---	---	---

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	20.0	14.5	17.0	24.5	17.0	20.5	19.5	17.0	18.5
2	---	---	---	21.0	14.5	17.5	24.5	17.0	20.5	19.5	16.0	17.5
3	---	---	---	23.0	16.5	19.5	23.5	20.0	21.5	17.5	14.5	16.0
4	21.5	17.0	19.5	24.5	18.5	21.5	22.5	19.5	21.0	16.0	14.0	15.0
5	23.0	14.5	18.5	21.0	18.5	19.5	22.0	17.0	19.5	17.5	12.5	14.5
6	21.5	14.5	17.5	24.0	17.0	20.0	24.0	17.0	20.0	16.0	13.5	15.0
7	22.5	15.5	18.0	25.5	17.0	21.0	24.0	17.0	20.0	17.5	14.0	16.0
8	20.0	16.5	18.0	26.5	18.5	22.0	22.5	17.0	19.5	20.0	14.5	16.5
9	24.0	16.0	19.5	26.5	19.5	22.5	22.5	18.5	20.5	20.0	16.0	17.5
10	26.0	17.5	21.0	24.0	20.5	22.0	24.0	18.0	20.5	20.5	16.0	17.5
11	22.5	17.0	19.5	23.5	17.5	20.0	25.0	17.0	20.5	20.0	16.0	18.0
12	19.0	15.5	17.0	24.5	15.0	19.5	22.5	16.5	19.5	22.0	17.0	19.5
13	21.5	13.0	17.0	26.0	16.0	20.0	27.0	19.0	22.5	21.5	18.5	20.0
14	22.5	13.5	17.5	26.5	17.0	21.5	27.0	20.0	23.0	19.0	15.5	17.0
15	19.0	16.0	17.0	25.0	20.0	22.0	26.5	17.5	21.0	19.0	13.5	15.5
16	17.0	15.5	16.5	25.5	18.5	21.5	25.5	16.0	20.5	19.0	13.5	15.5
17	20.5	14.5	17.0	24.0	16.0	20.0	22.5	19.0	20.5	17.5	13.0	15.0
18	21.0	14.0	17.0	25.5	18.0	21.0	24.0	18.0	20.5	19.0	15.0	16.5
19	20.5	15.0	17.5	25.0	19.0	22.0	24.0	18.0	20.5	19.0	14.0	16.0
20	24.0	16.5	19.5	24.0	17.5	20.0	26.5	18.0	21.5	17.5	15.5	16.5
21	20.5	16.5	18.0	23.0	15.0	19.0	25.5	18.5	21.5	16.5	13.0	15.0
22	24.5	17.0	20.0	24.5	15.0	19.5	24.0	17.5	20.5	13.5	12.0	12.5
23	19.5	16.0	18.0	18.5	17.0	17.5	25.0	19.5	22.0	12.0	9.5	11.0
24	23.0	14.0	18.5	19.5	16.5	17.5	24.0	19.0	21.0	12.0	8.5	10.0
25	17.5	15.5	17.0	21.0	16.5	18.5	24.0	17.0	20.0	11.5	9.0	10.5
26	17.5	15.0	16.0	18.0	17.0	17.5	25.0	17.5	21.0	14.5	10.5	12.0
27	23.0	14.5	18.0	25.0	17.0	20.5	24.5	19.5	21.5	16.0	11.5	13.5
28	20.0	16.0	17.5	26.5	18.5	21.5	21.0	18.5	19.5	15.0	14.0	14.5
29	17.5	15.5	16.0	24.0	18.5	21.0	20.0	17.5	19.0	16.5	14.0	15.0
30	18.0	14.5	16.0	24.5	18.0	21.0	20.0	18.0	19.0	13.5	12.0	12.5
31	---	---	---	24.0	17.5	20.5	21.5	17.0	19.0	---	---	---
MONTH	26.0	13.0	18.0	26.5	14.5	20.0	27.0	16.0	20.5	22.0	8.5	15.5

TURBIDITY (JTU)   WATEH YEAR OCTOBER 1973 TO SEPTEMHER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	15	7	4	4	20	5	7	20	210	2	390
2	2	15	8	4	4	10	170	7	3	9	2	15
3	2	3	2	3	4	10	30	5	3	7	3	40
4	2	3	2	3	5	10	30	5	3	5	2	15
5	2	10	330	4	4	15	7	4	3	5	2	10
6	2	5	15	3	4	5	5	3	3	5	2	7
7	2	4	7	3	4	4	5	3	3	4	2	5
8	1	3	4	5	4	110	5	3	3	4	2	4
9	1	3	35	7	6	60	4	7	3	3	2	4
10	2	3	10	5	8	10	4	15	3	3	2	2
11	3	3	4	3	7	7	9	7	40	3	2	2
12	2	3	3	2	6	5	10	180	3	2	2	10
13	3	5	3	3	5	4	7	15	2	2	2	110
14	10	4	2	2	4	4	200	6	2	2	2	15
15	5	3	2	2	8	4	55	5	5	20	3	5
16	2	3	2	2	7	4	5	5	15	4	3	3
17	2	2	2	2	6	5	4	5	5	3	3	2
18	2	2	3	2	6	10	4	5	3	3	3	2
19	1	2	3	2	5	10	4	4	2	3	3	2
20	2	2	120	3	10	7	4	3	2	4	3	25
21	2	2	65	50	10	30	4	3	4	3	3	240
22	2	2	15	15	240	10	5	3	4	4	3	10
23	2	3	7	20	15	5	4	3	3	4	5	5
24	2	10	4	10	5	4	3	3	3	15	2	4
25	2	70	4	3	5	5	3	3	5	4	2	3
26	2	10	25	3	5	10	3	4	4	3	2	3
27	2	5	25	20	15	4	3	4	3	2	2	3
28	1	25	8	30	7	8	4	4	3	2	5	3
29	340	7	5	25	---	5	4	3	15	2	5	20
30	70	6	4	5	---	15	40	3	1200	5	250	10
31	15	---	4	4	---	15	---	3	---	3	7	---

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.

LOCATION.--Lat 41°04'53", long 76°51'50", Northumberland County, at bridge at Watsontown 100 ft (305 m) upstream from White Deer Creek and 0.8 mi (1.3 km) upstream from Warrior Run.

DRAINAGE AREA.--6,550 mi^2 (17,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: October 1972 to September 1973.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 347 micromhos Aug. 28; minimum daily, 88 micromhos Apr. 6.

Period of record:
Specific conductance: Maximum daily, 362 micromhos Oct. 19, 1972; minimum daily, 88 micromhos Apr. 6, 1974.

REMARKS.--Sediment data for this station on page 415. Records of discharge are based on records for 01553500 West Branch Susquehanna River at Lewisburg, Pa.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	112	115	118	117	127	137	154	184	170	258	322
2	226	120	123	122	---	121	146	135	---	126	234	304
3	258	116	125	131	---	128	126	154	---	100	226	252
4	262	118	128	139	---	146	105	140	---	109	239	230
5	204	112	127	140	---	153	91	137	---	117	258	182
6	321	121	110	145	---	146	88	133	---	119	262	187
7	247	125	105	143	---	129	104	142	208	133	250	188
8	234	130	115	146	---	107	113	148	180	137	246	179
9	217	139	120	160	---	104	118	155	202	---	252	195
10	220	144	100	156	---	101	122	144	209	---	257	181
11	197	156	109	154	---	90	127	135	195	---	266	188
12	205	162	127	167	161	91	137	140	190	166	276	197
13	203	176	128	---	145	102	140	125	208	178	272	204
14	---	198	123	---	166	113	139	108	---	177	276	208
15	208	173	133	---	161	112	133	102	210	186	285	212
16	195	190	123	---	---	123	115	105	196	192	292	215
17	203	184	134	---	191	123	115	117	181	225	289	230
18	193	178	139	187	179	127	114	118	180	218	292	232
19	215	167	---	194	---	125	122	118	177	---	296	232
20	226	185	---	199	202	143	123	123	167	---	302	250
21	223	196	97	156	195	133	---	128	162	---	326	264
22	206	213	99	146	124	125	132	135	---	---	327	179
23	220	207	117	125	120	137	139	142	---	---	335	205
24	223	201	116	105	135	142	127	130	---	---	322	193
25	209	170	---	114	132	157	143	146	163	214	332	175
26	230	---	118	120	119	147	149	149	170	211	326	193
27	214	---	107	119	113	157	153	155	185	226	332	190
28	237	156	118	110	121	129	---	154	---	228	347	183
29	245	129	107	112	---	134	140	142	---	243	312	180
30	200	123	108	107	---	145	155	164	209	240	305	184
31	184	---	117	103	---	146	---	171	---	247	314	---

01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA.

LOCATION.--Lat 40°58'02", long 76°52'45", Union County, at gaging station at downstream side of Market Street Bridge at Lewisburg, 0.2 mi (3.2 km) downstream from Buffalo Creek, and 7.4 mi (11.9 km) upstream from mouth.

DRAINAGE AREA.--6,850 mi^2 (17,700 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, February 1956 to September 1958, May 1960 to June 1974.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Unpublished miscellaneous samples of sediment data published for water years 1962-63 available at Harrisburg office. Miscellaneous samples of sediment data published for water years 1964-66.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT.											
23...	1200	2860	--	--	--	--	--	--	--	--	157
NOV.											
28...	1250	19900	--	--	--	--	--	--	--	--	118
DEC.											
27...	1435	35200	.70	--	.07	.20	.27	--	.06	.02	78
APR.											
23...	1200	13000	.60	.60	.05	.21	.26	.86	.02	--	--
MAY											
30...	1100	6150	.36	--	.09	.21	.30	--	.03	.00	--
JUNE											
26...	1200	4570	.48	--	.07	.18	.25	--	.02	.01	--

DATE	SUSPENDED SOLIDS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
23...	3	250	6.5	11.0	1	10.9	1.0	3200	160	--
NOV.										
28...	36	155	6.4	11.0	--	10.8	.4	800	90	--
DEC.										
27...	46	135	6.8	5.0	15	13.4	.4	10000	200	2.0
APR.										
23...	--	152	6.7	12.5	--	10.4	.6	--	--	--
MAY										
30...	--	180	6.7	18.0	--	9.6	1.0	--	--	--
JUNE										
26...	--	195	6.9	20.0	--	8.8	1.2	--	--	--

DATE	TIME	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC.								
27...	1435	11	9	31	.2	42	33	2.8

DATE	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC.								
27...	.00	0	0	0	8	1100	71	290

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.

LOCATION.--Lat 40°50'04", long 76°49'37", Snyder County, on right bank at borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1 mi (1.6 km) downstream from Shamokin Creek, and 1.8 mi (2.9 km) south of Sunbury.

DRAINAGE AREA.--18,300 mi^2 (47,400 km^2), approximately (excluding that of Shamokin Creek).

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1974.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Miscellaneous sediment data for this station on page 453.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.										
23...	1100	4240	--	--	--	--	--	--	--	--
NOV.										
28...	1440	29200	--	--	--	--	--	--	--	--
DEC.										
27...	1545	86600	--	2100	260	1.0	--	--	.10	.37
JAN.										
24...	1000	82600	900	3000	360	.81	--	.83	.09	.34
FEB.										
14...	1015	17900	400	1500	540	1.1	--	1.1	.30	.68
27...	0935	45000	1000	2100	260	.90	--	.90	.18	.43
MAR.										
07...	1000	64400	1300	3200	220	.88	.02	.90	.12	.52
28...	1000	32500	400	2100	440	.80	--	.80	.14	.42
APR.										
10...	0930	74700	800	1700	270	--	--	.64	.11	.21
25...	1000	29000	600	1700	330	--	--	.75	.14	.15
MAY										
07...	1000	23600	500	1000	400	--	--	.45	.08	.32
21...	0900	33700	500	1400	220	--	--	.50	.13	.29
JUNE										
06...	0930	12800	0	1200	390	--	--	.42	.04	.36
20...	1000	16500	10	930	420	--	--	.47	.11	.39
JULY										
02...	1415	60800	4100	8900	750	--	--	.54	.08	.87
25...	1030	6290	40	190	90	--	--	.29	.17	.47
AUG.										
08...	1005	6600	150	250	210	--	--	.24	.23	.33
22...	0930	4140	90	290	180	--	--	.33	.16	.14
SEP.										
05...	1000	34000	2900	2400	1200	--	--	.45	.17	.50
19...	0945	9500	170	540	320	--	--	.39	.11	.23

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
OCT.										
23...	--	--	--	--	220	7	400	6.5	10.5	2
NOV.										
20...	--	--	--	--	146	37	197	6.3	10.0	--
DEC.										
27...	.47	--	.12	.04	105	55	155	6.2	4.0	20
JAN.										
24...	.43	1.3	.09	.02	109	58	150	6.8	4.0	15
FEB.										
14...	.90	2.1	.06	.04	147	13	190	7.1	.5	10
27...	.61	1.5	.06	--	100	44	155	6.8	.0	25
MAR.										
07...	.64	1.5	.09	--	100	60	170	7.2	8.0	25
20...	.56	1.4	.05	--	131	17	169	6.9	6.0	--
APR.										
10...	.32	.96	.05	--	93	41	155	6.7	5.5	20
25...	.29	1.0	.05	--	111	19	220	7.1	10.0	7
MAY										
07...	.32	.77	.04	--	127	9	210	7.3	11.0	--
21...	.42	.92	.06	--	119	30	180	6.9	20.0	--
JUNE										
06...	.40	.82	.05	--	155	12	250	6.7	21.0	8
20...	.50	.97	.05	--	152	37	280	6.3	21.0	2
JULY										
02...	.95	1.5	.21	--	113	102	190	7.2	21.5	60
25...	.64	.93	.04	--	175	5	245	7.6	21.0	4
AUG.										
08...	.56	.80	.06	--	102	7	300	8.0	23.0	4
22...	.30	.63	.04	--	213	11	360	8.2	24.0	5
SEP.										
05...	.67	1.1	.12	--	150	91	220	6.7	18.0	30
19...	.34	.73	.04	--	165	14	290	7.1	19.0	4

DATE	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
OCT.									
23...	9.0	--	1.6	--	--	6400	270	--	--
NOV.									
20...	10.7	--	.6	--	--	5200	430	--	--
DEC.									
27...	13.8	--	.8	--	--	14000	1100	3.0	--
JAN.									
24...	13.2	152	1.8	2.0	--	--	1300	1.0	--
FEB.									
14...	14.2	4	1.0	.0	--	--	120	.0	--
27...	14.6	80	1.2	.9	--	--	170	2.5	--
MAR.									
07...	12.0	17	1.0	1.1	--	--	400	3.5	--
20...	12.4	32	.6	.8	--	--	130	4.5	--
APR.									
10...	11.9	8	.8	.0	2.1	--	330	2.0	--
25...	10.8	9	.6	.0	14	--	120	--	--
MAY									
07...	11.0	9	2.4	27	11	--	1900	--	--
21...	10.0	13	1.8	11	1.0	--	970	--	--
JUNE									
06...	8.4	12	2.4	--	--	--	1800	2.7	--
20...	8.4	17	2.0	10	24	--	280	2.2	--
JULY									
02...	8.4	30	--	8.0	15	--	3300	7.2	--
25...	7.8	12	2.6	170	2.8	--	320	6.3	0
AUG.									
08...	7.4	11	3.8	27	4.2	--	160	3.3	0
22...	6.8	33	4.0	10	2.2	--	180	11	0
SEP.									
05...	8.0	21	3.0	28	4.8	--	1200	7.7	0
19...	8.0	9	2.2	23	6.0	--	1300	3.8	0

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
23...	--	--	--	--	--	--	--	--	--
NOV.									
28...	--	--	--	--	--	--	--	--	--
DEC.									
27...	6	1	--	0	9	--	300	--	--
JAN.									
24...	2	0	0	--	11	--	26	1	200
FEB.									
14...	1	0	<10	--	10	--	5	0	140
27...	1	0	0	--	10	--	0	0	10
MAR.									
07...	--	0	0	--	10	--	6	0	20
28...	1	0	0	--	--	0	2	0	30
APR.									
10...	2	0	10	--	0	--	3	0	40
25...	1	0	10	--	10	--	1	0	110
MAY									
07...	1	0	<10	--	0	--	3	0	60
21...	<1	0	10	--	10	--	1	1	30
JUNE									
06...	1	1	10	--	0	--	1	0	50
20...	3	0	10	--	0	--	1	0	60
JULY									
02...	6	0	10	--	10	--	11	0	80
25...	0	0	<10	--	10	--	2	0	10
AUG.									
08...	2	0	0	--	0	--	0	0	10
22...	6	0	<10	--	0	--	1	0	0
SEP.									
05...	8	0	10	--	10	--	10	1	100
19...	2	0	10	--	0	--	3	0	510

DATE	TIME	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DEC.											
27...	1545	--	--	--	--	--	--	--	--	18	--
MAR.											
07...	1000	--	17	--	3.9	--	5.1	--	1.4	36	0
JUNE											
20...	1000	26	--	7.7	--	7.0	--	1.4	--	37	0
SEP.											
19...	0945	--	--	--	--	--	--	--	--	28	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC.										
27...	15	30	--	.1	--	50	35	.1	5.0	18
MAR.										
07...	30	25	9.1	--	--	59	29	--	--	3.6
JUNE										
20...	30	60	10	--	13	--	--	--	--	30
SEP.										
19...	23	76	8.7	--	14	--	--	--	--	3.6

01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA.

LOCATION.--Lat 40°12'57", long 78°15'56", Bedford County, on left bank, 500 ft (152 m) downstream from bridge on State Highway 913, 0.5 mi (0.8 km) west of Saxton, and 1.5 mi (2.4 km) upstream from Shoup Run.

DRAINAGE AREA.--756 mi^2 (1,958 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 13...	1015	432	65	1.4	.14	.35	.49	.02
JAN. 17...	1100	2670	39	1.5	.07	.39	.46	.07
MAR. 19...	1130	815	54	1.0	.10	.53	.63	.02
MAY 15...	1130	1530	81	1.0	.18	.58	.76	.07
JULY 15...	1430	267	93	.68	.03	.37	.40	.03
SEP. 20...	1200	144	120	.56	.06	.34	.40	.01

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 13...	.02	240	7.0	6.5	12.2	21	E10	2.0
JAN. 17...	.03	160	6.2	5.0	6.4	5400	1300	1.5
MAR. 19...	.01	185	6.8	7.0	12.3	E3	E11	--
MAY 15...	.03	120	6.8	16.5	9.0	210	100	--
JULY 15...	.01	230	6.7	25.5	8.0	E4	48	--
SEP. 20...	.00	290	7.3	20.0	11.1	21	24	--

401842078105301 RAYSTOWN LAKE NEAR ENTRIKEN, PA.
(Formerly published as 01562300 Raystown Branch Juniata River near Entriken, Pa.)

LOCATION.--Lat 40°18'42", long 78°10'53", Huntingdon County, 1.8 mi (2.9 km) southeast of Entriken at point 10 mi (16 km) upstream from dam on Raystown Lake.

DRAINAGE AREA.--812 mi^2 (2,100 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
MAY									
14...	1645	54	.90	.15	.46	.61	.11	.03	190
14...	1646	--	.80	.22	.45	.67	.07	.01	220
JULY									
16...	1600	68	.54	.10	.44	.54	.03	.01	190
16...	1601	--	.59	.77	.33	1.1	.04	.01	225
SEP.									
19...	1530	84	.41	.16	.32	.48	.01	.00	255
19...	1531	--	.04	1.2	.23	1.4	.06	.02	255

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	DIS-SOLVED OXYGEN (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY								
14...	7.3	16.0	18	9.5	<1.0	960	480	--
14...	7.1	11.0	--	7.0	--	--	--	--
JULY								
16...	7.6	26.5	44	9.2	5.5	81	88	2.9
16...	7.9	13.0	--	.7	--	--	--	--
SEP.								
19...	7.8	22.0	144	8.1	--	<1	16	--
19...	7.8	13.5	--	.2	--	--	--	--

402117078082501 RAYSTOWN LAKE NEAR MARKLESBURG, PA.

(Formerly published as 01562400 Raystown Branch Juniata River near Marklesburg, Pa.)

LOCATION.--Lat 40°21'17", long 78°08'25", Huntingdon County, 2.6 mi (4.2 km) southeast of Marklesburg at point 7 mi (11 km) upstream from dam on Raystown Lake.

DRAINAGE AREA.--824 mi^2 (2,130 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
MAY									
14...	1545	58	.90	.07	.33	.40	.02	.00	205
14...	1546	--	1.0	.27	.43	.70	.02	.00	175
JULY									
16...	1440	50	.36	.02	.43	.45	.01	.01	175
16...	1441	--	.66	.54	.39	.93	.04	.02	180
SEP.									
19...	1430	68	.34	.09	.34	.43	.01	.00	210
19...	1431	--	.04	.82	.22	1.0	.03	.01	195

DATE	PH (UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY								
14...	7.3	14.5	75	10.2	<1.0	E10	<4	1.4
14...	7.3	7.0	--	6.8	--	--	--	--
JULY								
16...	7.6	26.0	74	9.6	3.8	81	82	6.7
16...	7.9	10.5	--	1.2	--	--	--	--
SEP.								
19...	7.8	22.5	157	8.9	8.3	<1	<1	--
19...	7.8	11.0	--	.3	--	--	--	--

402246078034201 RAYSTOWN LAKE NEAR HESSTON, PA.

(Formerly published as 01562700 Raystown Branch Juniata River near Hesston, Pa.)

LOCATION.--Lat 40°22'46", long 78°03'42", Huntingdon County, 3.8 mi (6.1 km) southeast of Hesston at point 4 mi (6.4 km) upstream from dam on Raystown Lake.

DRAINAGE AREA.--938 mi^2 (2,430 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
MAY									
14...	1810	40	.90	.12	.39	.51	.02	.00	182
14...	1811	--	1.1	.13	.33	.46	.01	.00	175
JULY									
16...	1330	48	.43	.00	.30	.30	.00	.00	160
16...	1331	--	.84	.07	.54	.61	.01	.01	180
SEP.									
19...	1330	64	.32	.17	.42	.59	.02	.00	180
19...	1331	--	.70	.09	.31	.40	.04	.01	200

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	DIS-SOLVED OXYGEN (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY								
14...	7.4	13.5	120	10.0	<1.0	0	0	--
14...	7.2	9.0	--	8.6	--	--	--	--
JULY								
16...	7.3	27.0	181	8.7	1.0	<1	83	7.5
16...	7.4	10.0	--	4.6	--	--	--	--
SEP.								
19...	7.3	22.5	240	8.8	5.0	<1	1	--
19...	7.6	9.5	--	2.0	--	--	--	--

402535078014701 RAYSTOWN LAKE NEAR HUNTINGDON, PA.
(Formerly published as 01563000 Raystown Branch Juniata River near Huntingdon, Pa.)

LOCATION.--Lat 40°25'35", long 78°01'47", Huntingdon County, 6 mi (9.7 km) south of Huntingdon at point 1.5 mi (2.4 km) upstream from dam on Raystown Lake.

DRAINAGE AREA.--957 mi^2 (2,480 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
MAY									
14...	1400	38	1.2	.13	.47	.60	.02	.00	170
15...	1401	--	1.4	.15	.36	.51	.01	.00	180
JULY									
16...	1130	44	.45	.01	.32	.33	.00	.00	155
16...	1131	--	1.0	.06	.56	.62	.02	.02	175
SEP.									
19...	1200	58	.34	.08	.31	.39	.01	.00	165
19...	1201	--	.81	.19	.44	.63	.03	.01	190

DATE	PH (UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY								
14...	7.4	14.0	114	9.7	<1.0	0	0	1.8
15...	7.0	7.0	--	9.4	--	--	--	--
JULY								
16...	6.9	26.0	228	8.7	<1.0	0	E4	7.4
16...	7.4	10.0	--	7.6	--	--	--	--
SEP.								
19...	6.8	22.0	354	9.4	1.4	<1	2	--
19...	7.0	7.5	--	3.0	--	--	--	--

Preceding page blank

01563210 RAYSTOWN BRANCH JUNIATA RIVER AT ARDENHEIM, PA.

LOCATION.--Lat 40°27'17", long 77°59'00", Huntingdon County, at bridge 0.6 mi (1.0 km) south of Ardenheim, 2.4 mi (3.9 km) southeast of Huntingdon, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--3,400 mi^2 (8,800 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1974.
Sediment records: March 1974 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 454. Discharge records are obtained from 01563200 Raystown Branch Juniata River below Raystown Dam near Huntingdon.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 14...	0830	5610	64	.40	.22	.27	.49	.01
JAN. 18...	0845	3930	34	1.3	.06	.28	.34	.03
MAR. 20...	0845	72	44	1.2	.15	.30	.65	.01
MAY 15...	0930	111	65	1.3	.12	.34	.46	.02
JULY 15...	1200	141	44	.68	.09	.38	.47	.01
SEP. 20...	1000	214	48	.43	.09	.26	.35	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 14...	.00	220	6.7	12.0	10.2	E3	E16	3.0
JAN. 18...	.01	160	6.3	2.0	14.0	20	E5	.5
MAR. 20...	.00	155	6.7	4.5	11.8	E1	E2	--
MAY 15...	.00	168	6.0	17.5	8.2	E8	37	3.9
JULY 15...	.00	150	7.0	21.5	8.8	E7	60	5.3
SEP. 20...	.00	185	6.9	18.0	9.2	73	540	--

01567000 JUNIATA RIVER AT NEWPORT, PA.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, at gaging station on State Highway 34 bridge at Newport, 1,000 ft (305 m) upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,350 mi^2 (8,680 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, October 1956 to September 1972, October 1973 to September 1974.
Water temperatures: October 1944 to September 1953, April 1958 to September 1962, October 1964 to September 1974.
Sediment records: January 1951 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 312 micromhos Aug. 29; minimum daily, 134 micromhos Apr. 5.
Water temperatures: Maximum daily, 26.0°C July 5, 10, 15, 19, Aug. 17; minimum daily, 0.5°C Jan. 9.

Period of record:
Specific conductance (1964-72, 1973-74): Maximum daily, 558 micromhos Oct. 27, 1969; minimum daily, 119 micromhos June 22, 1972.
Water temperatures: Maximum daily, 31.5°C Aug. 27, 1951; minimum daily, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 418. Unpublished records of water temperatures and specific conductance of sediment samples available in the district office at Harrisburg. Some flow regulation at low flow by powerplants and mills above station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN '(N) (MG/L)
MAR. 27...	1015	3120	.50	.50	.01	.37	.38	.88
APR. 17...	1620	7100	.90	.90	.01	.49	.50	1.4
MAY 23...	0930	2770	.72	--	.18	.39	.57	--
JUNE 11...	1000	1540	.43	--	.08	.40	.48	--
SEP. 13...	1000	974	.68	--	.10	.48	.58	--

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)
MAR. 27...	.03	.01	--	--	6.0	--	--
APR. 17...	.06	--	180	8.1	12.0	13.8	1.6
MAY 23...	.10	.06	200	6.8	22.0	8.0	1.4
JUNE 11...	.21	.17	240	7.9	23.0	82.0	2.6
SEP. 13...	.49	.49	248	8.7	--	--	--

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	158	195	156	168	179	134	215	215	172	241	303
2	---	169	196	160	163	178	141	228	198	185	256	293
3	---	175	198	171	---	181	143	219	208	180	252	280
4	---	179	203	179	---	185	140	221	221	188	246	274
5	---	180	204	180	---	195	134	230	210	195	237	278
6	---	185	197	174	---	197	137	229	221	193	232	279
7	---	189	186	190	177	209	152	220	216	200	251	269
8	---	195	183	192	---	207	148	234	222	210	240	274
9	---	201	176	197	---	202	152	224	225	172	235	268
10	---	204	170	---	---	184	155	213	220	209	253	266
11	---	204	162	195	---	183	160	216	231	189	263	262
12	---	208	167	---	197	162	172	225	241	209	270	267
13	---	210	181	---	202	152	168	190	235	194	277	274
14	---	214	185	---	203	159	170	173	243	218	289	261
15	---	217	187	156	198	165	166	136	245	220	290	252
16	282	219	190	162	206	171	167	136	239	231	292	274
17	294	220	---	170	212	173	156	145	212	232	294	286
18	299	221	193	---	210	179	163	154	203	241	279	275
19	294	231	---	168	211	191	168	160	180	224	292	284
20	293	230	---	177	207	195	183	167	191	238	273	290
21	282	228	165	175	218	198	189	175	198	222	282	289
22	286	232	152	164	209	190	193	181	208	225	254	301
23	287	235	168	150	193	179	198	184	212	218	283	305
24	293	236	174	164	190	179	197	176	214	240	296	286
25	294	240	171	158	212	178	180	187	201	248	297	294
26	285	243	180	175	200	172	208	190	204	257	292	295
27	235	242	174	182	179	174	200	188	189	254	296	290
28	181	247	152	159	162	184	207	200	195	260	302	303
29	175	211	146	171	---	189	213	201	170	243	312	301
30	175	199	151	167	---	192	222	208	180	249	302	280
31	176	---	148	166	---	160	---	212	---	225	305	---
MONTH	---	211	178	171	---	182	171	195	212	217	274	282

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.0	7.0	3.0	4.0	4.0	3.5	19.0	19.5	21.0	22.0	24.0
2	---	10.5	6.0	3.0	4.0	3.5	4.5	16.0	18.5	23.0	24.0	23.0
3	---	12.0	4.5	3.0	---	4.0	6.5	16.0	19.0	23.0	24.5	22.5
4	---	11.0	5.0	2.5	---	5.0	11.0	14.0	19.5	24.5	24.0	20.0
5	---	11.0	8.5	2.0	---	9.0	12.0	14.0	20.0	26.0	22.0	17.5
6	---	9.0	8.0	2.0	---	6.5	10.0	13.0	21.5	24.5	21.5	18.5
7	---	8.0	7.0	2.5	2.0	9.0	7.5	12.0	21.0	24.0	22.0	18.0
8	---	8.0	6.0	1.5	---	10.0	8.5	10.5	21.5	24.5	23.5	19.5
9	---	9.0	5.5	0.5	---	7.5	7.0	12.5	22.0	25.0	23.0	19.5
10	---	8.0	5.0	---	---	7.5	5.5	13.0	24.5	26.0	22.0	20.0
11	---	7.5	5.0	2.0	---	6.5	7.0	13.0	25.0	25.0	22.5	20.5
12	---	8.0	4.0	---	3.0	7.0	8.0	16.0	23.0	22.5	22.5	22.0
13	---	8.0	4.0	---	2.0	4.0	10.0	14.0	20.5	22.0	24.0	23.0
14	---	11.0	4.0	---	4.0	3.0	12.0	12.5	21.0	23.5	25.5	22.5
15	---	12.0	3.5	1.0	4.0	4.0	13.0	15.0	22.0	26.0	24.0	20.0
16	15.0	13.0	3.0	2.0	2.0	5.5	10.0	16.0	21.5	24.5	24.5	19.5
17	13.0	9.0	---	4.0	2.0	4.0	9.0	19.0	20.0	24.5	26.0	19.5
18	11.0	7.0	1.0	---	3.0	3.0	10.0	20.0	19.0	25.0	24.0	20.0
19	10.0	7.0	---	3.0	2.0	5.0	12.5	20.5	19.5	26.0	23.5	20.0
20	12.0	7.0	---	3.0	3.0	5.0	11.5	19.0	21.5	24.0	24.0	20.5
21	11.0	8.0	2.0	3.5	2.5	6.5	12.0	18.5	23.0	23.0	24.5	21.5
22	10.5	8.5	1.5	4.0	4.0	5.0	15.0	20.0	24.5	22.5	25.0	18.0
23	11.5	8.5	2.0	4.0	4.5	5.5	14.0	22.0	22.0	24.0	24.0	15.5
24	12.0	8.0	2.5	4.0	4.0	6.5	11.5	20.0	19.5	22.0	24.5	13.0
25	11.5	10.0	3.0	4.0	4.0	4.0	9.5	19.5	20.0	22.0	23.0	13.0
26	11.0	9.0	3.0	3.5	3.5	5.0	12.0	18.0	18.5	22.0	24.0	15.0
27	12.0	9.0	4.0	4.5	3.5	5.0	13.5	17.0	18.5	23.0	24.5	15.0
28	12.0	10.0	4.5	5.0	4.0	7.0	15.5	16.0	19.0	25.0	25.0	17.0
29	12.0	8.5	4.0	6.0	---	6.0	17.5	18.5	19.0	24.5	24.0	19.0
30	11.0	7.0	3.0	7.0	---	4.0	19.0	18.5	19.5	24.0	24.5	15.5
31	10.0	---	3.0	5.0	---	3.0	---	20.5	---	23.0	23.5	---
MONTH	---	9.0	4.5	3.5	---	5.5	10.5	16.5	21.0	24.0	23.5	19.0

01568700 STONY CREEK ABOVE PUMP-STORAGE RESERVOIR SITE NEAR DAUPHIN, PA.

LOCATION.--Lat 40°27'30", long 76°39'53", Lebanon County, on right bank 3.1 mi (5.0 km) upstream from Rattling Run and 16 mi (26 km) northeast of Dauphin.

DRAINAGE AREA.--11.5 mi^2 (29.8 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1974.
Water temperatures: March to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 22.0°C July 9; minimum, 4.0°C Apr. 10.

Period of record:
Water temperatures: Maximum, 22.0°C July 9, 1974; minimum, 4.0°C Apr. 10, 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
MAR.							
20...	1405	20	28	6.3	7.5	--	11.6
26...	1430	22	72	5.8	4.5	--	12.6
APR.							
02...	1330	62	35	4.8	4.5	--	12.2
09...	1215	79	32	4.8	5.0	--	11.4
16...	1115	50	32	4.3	6.5	--	10.7
24...	1245	24	26	5.3	9.5	--	11.4
30...	1045	17	23	5.8	14.0	--	9.4
MAY							
07...	1215	14	24	6.4	8.5	--	11.0
14...	1100	67	32	4.8	11.5	--	10.2
21...	1125	19	22	5.3	16.5	--	10.3
28...	1215	16	22	4.6	13.5	--	10.6
JUNE							
04...	1115	14	22	5.2	15.5	--	10.0
11...	1140	9.1	33	5.9	19.0	--	9.4
18...	1220	8.7	21	5.7	16.0	--	10.2
25...	1240	15	29	6.4	14.0	1	9.6
JULY							
02...	1120	24	32	5.4	16.0	1	8.8
09...	1145	6.3	24	6.2	20.0	1	8.6
16...	1145	5.3	21	5.6	20.5	1	9.2
23...	1100	4.8	22	5.5	16.0	1	8.4
30...	1325	40	31	4.7	17.0	2	9.0
AUG.							
06...	0930	14	27	6.4	18.0	1	9.0
13...	0930	5.7	25	6.0	16.0	1	8.0
20...	0940	5.2	41	5.9	17.0	1	12.2
27...	1015	11	58	5.4	18.0	2	12.0
SEP.							
03...	1105	51	62	4.6	17.0	1	7.2
10...	1010	18	26	4.7	17.0	1	8.4
17...	0955	16	34	4.9	13.5	2	12.4
24...	0950	9.0	32	5.8	8.5	2	10.0

DATE	TIME	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.						
10...	1010	2	2	.2	10	64
17...	0955	2	2	.2	10	40
24...	0950	4	3	.1	5.0	10

SUSQUEHANNA RIVER BASIN

01568700 STONY CREEK ABOVE PUMP-STORAGE RESERVOIR SITE NEAR DAUPHIN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 to SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	6.0	4.5
28	---	---	---	---	---	---	---	---	---	---	6.0	6.0
29	---	---	---	---	---	---	---	---	---	---	6.0	5.5
30	---	---	---	---	---	---	---	---	---	---	5.0	4.5
31	---	---	---	---	---	---	---	---	---	---	4.5	4.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	4.5	16.5	13.5	15.0	14.0	17.0	14.5	19.0	15.5	18.5	16.5
2	6.0	4.5	13.5	11.0	14.0	13.0	19.0	14.5	19.0	16.5	18.5	17.0
3	9.0	6.0	12.0	10.0	16.5	13.0	20.0	16.5	17.0	16.5	17.0	15.5
4	9.0	9.0	14.0	10.0	17.0	14.5	21.0	18.0	17.0	16.5	---	---
5	9.0	9.0	11.5	9.0	18.5	14.5	19.5	18.5	18.0	16.0	---	---
6	9.0	6.5	10.5	9.5	18.5	14.5	20.5	18.0	17.0	15.5	---	---
7	8.5	5.5	10.0	8.5	18.0	15.0	20.5	16.5	17.0	15.5	---	---
8	8.5	6.0	11.0	7.5	18.0	15.5	21.5	17.0	16.5	15.5	---	---
9	6.0	5.0	11.0	10.0	19.0	15.5	22.0	18.5	17.0	15.5	---	---
10	8.0	4.0	13.5	10.0	21.0	16.5	21.5	19.0	18.5	15.5	---	---
11	8.5	4.5	14.0	10.0	20.5	18.0	19.5	17.0	19.0	15.5	15.5	14.5
12	9.0	5.5	14.0	11.5	18.5	15.5	19.5	18.5	18.0	15.0	17.0	14.5
13	9.5	6.5	13.5	11.5	---	---	20.0	15.5	19.0	16.0	17.0	16.0
14	9.5	6.5	16.0	11.5	---	---	20.5	16.0	20.5	16.5	17.0	15.0
15	9.0	5.0	18.5	14.0	---	---	21.5	18.5	20.5	16.5	14.5	13.0
16	10.0	6.5	18.5	14.5	---	---	21.5	18.5	19.5	16.0	14.0	12.0
17	10.0	6.0	19.5	15.5	---	---	20.5	16.0	19.5	17.0	14.5	13.5
18	10.5	6.5	20.0	16.5	---	---	20.5	16.5	21.0	16.5	14.5	13.5
19	10.0	8.0	19.0	16.0	17.0	14.5	21.5	18.5	21.0	17.0	14.5	13.5
20	10.0	6.0	19.0	15.5	18.0	16.0	20.5	17.0	21.0	16.5	14.5	14.0
21	11.0	6.5	19.5	15.0	16.5	16.0	20.5	15.5	21.0	16.5	14.5	13.0
22	11.0	10.0	19.5	15.0	18.0	15.5	20.5	15.5	19.0	17.0	13.0	11.5
23	12.0	11.0	18.0	16.0	17.5	14.5	17.0	15.5	21.0	18.0	11.5	10.0
24	11.0	9.5	18.5	15.0	14.5	13.5	15.5	14.5	21.0	17.0	10.0	8.5
25	10.0	6.5	15.5	13.5	14.0	13.5	17.0	14.5	20.0	16.5	9.0	8.0
26	11.5	8.0	16.0	12.5	15.0	13.5	16.5	15.5	20.0	17.0	10.5	8.5
27	11.5	8.0	14.0	12.5	16.0	13.5	20.0	16.0	20.0	18.5	11.5	9.5
28	13.5	9.5	15.5	11.5	15.0	14.0	21.5	17.0	20.0	18.5	11.5	11.0
29	16.0	11.5	14.5	13.0	14.0	13.5	20.5	18.5	21.0	18.0	14.0	11.5
30	16.0	14.0	16.0	13.0	16.0	13.5	18.5	15.5	19.0	18.0	13.5	11.5
31	---	---	15.0	14.0	---	---	18.5	16.0	18.0	16.5	---	---
MONTH	16.0	4.0	20.0	7.5	21.0	13.0	22.0	14.5	21.0	15.0	---	---

01568750 STONY CREEK BELOW PUMP-STORAGE RESERVOIR SITE NEAR DAUPHIN, PA.

LOCATION.--Lat 40°24'51", long 76°46'50", Lebanon County, on right bank at Water Tank Trail, 3.8 mi (6.1 km) downstream from Rattling Run, and 9 mi (14.5 km) northeast of Dauphin.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1974.
Water temperatures: March to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 23.0°C July 9; minimum, 3.0°C Mar. 29-31, Apr. 1, 10.

Period of record:
Water temperatures: Maximum, 23.0°C July 9, 1974; minimum, 3.0°C Mar. 29-31, Apr. 1, 10, 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
MAR.							
20...	1500	42	30	6.6	6.5	--	12.0
26...	1155	46	26	5.5	3.0	--	13.2
APR.							
02...	1240	120	32	4.7	4.5	--	12.4
09...	1100	141	30	5.2	5.0	--	11.8
16...	1000	100	30	4.3	5.5	--	11.2
24...	1200	50	26	5.4	9.5	--	11.4
30...	0945	36	23	6.1	17.0	--	9.6
MAY							
07...	1050	30	21	4.9	9.5	--	11.2
14...	1000	137	33	4.6	11.5	--	11.2
21...	1015	39	21	5.6	15.0	--	10.0
28...	1000	33	21	4.7	14.0	--	10.3
JUNE							
04...	1000	27	22	5.8	16.0	--	9.8
11...	1000	19	23	6.4	18.5	--	9.2
18...	1115	20	21	5.4	15.5	--	11.0
25...	1030	26	27	6.3	15.0	1	9.6
JULY							
02...	1230	39	32	5.6	18.0	1	8.8
09...	1000	8.7	24	6.2	20.0	1	8.4
16...	1030	8.0	21	5.2	20.0	1	8.2
23...	1240	7.0	21	5.6	18.0	1	9.2
30...	1120	48	28	5.8	18.5	2	8.6
AUG.							
06...	1100	18	26	6.5	16.5	2	9.6
13...	1130	8.0	25	6.0	18.0	1	8.8
20...	1100	6.7	28	6.1	18.5	1	12.4
27...	1100	9.1	--	6.2	21.0	1	12.4
SEP.							
03...	1200	62	38	5.4	17.0	1	11.2
10...	1150	22	29	5.6	16.0	1	10.4
17...	1100	19	30	5.2	14.5	2	13.6
24...	1055	11	26	7.2	9.0	2	12.0

DATE	TIME	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.						
10...	1150	20	16	.0	.0	80
17...	1100	2	2	.1	5.0	20
24...	1055	3	2	.0	.0	.3

01568750 STONY CREEK BELOW PUMP-STORAGE RESERVOIR SITE NEAR DAUPHIN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 to SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	5.5	3.5
28	---	---	---	---	---	---	---	---	---	---	6.0	5.5
29	---	---	---	---	---	---	---	---	---	---	5.5	3.0
30	---	---	---	---	---	---	---	---	---	---	3.0	3.0
31	---	---	---	---	---	---	---	---	---	---	3.0	3.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.0	18.0	16.0	16.0	15.5	19.5	16.5	---	---	19.5	18.5
2	6.0	4.0	15.0	14.0	16.0	15.5	19.5	18.0	---	---	18.5	18.0
3	8.5	4.5	14.0	13.0	17.5	15.0	20.5	18.0	---	---	18.5	16.0
4	10.0	5.0	14.5	12.5	18.0	16.0	21.5	19.5	---	---	16.0	15.0
5	9.0	8.0	12.0	11.5	18.5	15.5	21.5	20.5	---	---	15.0	14.0
6	8.0	5.5	11.5	11.0	19.0	16.0	21.0	20.0	---	---	15.0	14.5
7	6.5	3.5	11.0	9.5	18.0	16.5	20.5	18.5	18.0	16.5	15.5	14.0
8	6.5	5.5	11.5	9.0	17.5	16.0	21.5	19.0	18.0	16.5	15.5	15.0
9	5.5	4.5	11.0	11.0	19.0	15.5	23.0	20.0	18.5	17.0	16.0	15.0
10	6.0	3.0	14.0	11.0	20.0	16.5	22.0	21.0	18.5	17.0	17.0	15.5
11	7.0	4.5	14.5	11.5	20.0	18.5	20.5	19.5	19.0	16.5	---	---
12	8.5	6.0	14.5	12.0	18.0	17.5	20.0	18.0	18.5	16.5	18.5	16.0
13	9.0	7.0	13.0	11.5	17.5	15.0	20.0	17.0	19.0	18.0	19.0	18.0
14	9.0	7.0	15.5	11.5	17.5	15.0	21.0	18.0	20.0	18.0	18.0	16.0
15	8.0	6.5	16.5	14.0	18.0	16.0	22.0	20.0	20.0	18.0	16.0	14.5
16	8.5	5.5	18.0	15.5	18.0	16.5	21.5	20.0	19.5	18.0	15.0	14.0
17	9.0	5.5	18.5	16.0	17.5	15.5	20.5	18.5	19.5	19.0	15.5	14.5
18	9.5	6.5	18.5	16.5	16.5	15.0	21.0	19.0	19.5	18.0	15.5	14.5
19	8.5	7.0	17.0	16.0	17.0	15.0	22.0	20.0	20.5	18.5	16.0	14.5
20	9.5	6.0	16.5	15.0	18.5	17.0	20.5	19.0	20.0	18.5	16.5	15.5
21	11.0	8.0	17.0	14.5	18.5	17.0	19.5	16.5	20.5	18.5	16.5	15.0
22	11.5	10.0	18.0	15.5	18.5	17.0	19.5	16.5	20.0	19.0	15.0	13.5
23	13.0	11.0	18.0	17.0	18.5	15.5	18.0	17.0	20.5	19.0	13.5	11.0
24	11.0	9.0	17.0	16.0	15.5	14.5	16.5	16.5	20.5	19.0	10.5	9.0
25	10.5	7.5	16.5	15.0	15.5	14.5	18.0	16.5	19.5	18.0	10.0	8.5
26	13.0	9.5	16.0	14.5	15.5	14.5	18.0	17.0	20.0	18.5	11.5	9.5
27	14.0	11.0	15.5	14.5	15.5	14.5	19.5	18.0	21.0	19.5	12.0	10.5
28	15.5	12.5	16.0	14.0	15.5	15.0	21.0	18.5	21.0	20.0	13.5	12.0
29	18.5	15.0	15.5	15.0	15.0	14.5	19.5	18.5	21.0	20.0	14.5	13.5
30	18.5	17.5	16.5	15.0	16.5	14.5	---	---	20.5	19.5	14.0	13.0
31	---	---	16.5	16.0	---	---	---	---	19.5	18.5	---	---
MONTH	18.5	3.0	18.5	9.0	20.0	14.5	23.0	16.5	21.0	16.5	19.5	8.5

01569980 CONODOGUINET CREEK AT WILLOW MILL BRIDGE, NEAR HOGESTOWN, PA.

LOCATION.--Lat 40°15'10", long 77°02'08", Cumberland County, at Willow Mill Bridge, 3.0 mi (4.8 km) upstream from gaging station and 0.5 mi (0.8 km) north of U.S. Highway 11 at Hogestown. Sampling site moved in June 1974 to bridge on State Highway 114, 0.1 mi (0.1 km) downstream from Willow Mill Bridge, and 3.0 mi (5.0 km) upstream from gaging station.

DRAINAGE AREA.--446 mi^2 (1,160 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.
Water temperatures: April to September 1974.
Sediment records: April to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 472 micromhos Sept. 27; minimum daily, 164 micromhos May 14.
Water temperatures: Maximum daily, 28.0°C June 10, July 4, 18, 19, Aug. 15; minimum daily, 8.0°C Apr. 9.

Period of record:
Specific conductance: Maximum daily, 472 micromhos Sept. 27, 1974; minimum daily, 164 micromhos May 14, 1974.
Water temperatures: Maximum daily, 28.0°C June 10, July 4, 18, 19, Aug. 15, 1974; minimum daily, 8.0°C Apr. 9, 1974.

REMARKS.--Sediment data for this station on page 422. Sediment records may be affected by upstream construction from June to September 1974. Records of discharge given for 01570000 Conodoguinet Creek near Hogestown.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY PM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	318	308	241	423	455
2	---	---	---	---	---	---	---	335	247	242	420	431
3	---	---	---	---	---	---	---	339	247	245	430	418
4	---	---	---	---	---	---	---	330	267	256	418	397
5	---	---	---	---	---	---	184	326	279	277	398	409
6	---	---	---	---	---	---	195	339	293	301	416	419
7	---	---	---	---	---	---	202	349	309	289	418	420
8	---	---	---	---	---	---	218	358	320	312	417	398
9	---	---	---	---	---	---	207	348	326	325	427	411
10	---	---	---	---	---	---	200	347	334	337	420	429
11	---	---	---	---	---	---	231	329	345	328	430	441
12	---	---	---	---	---	---	238	309	343	349	429	448
13	---	---	---	---	---	---	246	172	349	375	430	450
14	---	---	---	---	---	---	210	164	345	375	444	375
15	---	---	---	---	---	---	218	194	323	---	444	350
16	---	---	---	---	---	---	224	221	308	381	447	380
17	---	---	---	---	---	---	240	230	264	384	431	403
18	---	---	---	---	---	---	254	255	233	394	428	415
19	---	---	---	---	---	---	266	264	256	400	428	435
20	---	---	---	---	---	---	280	268	269	404	429	418
21	---	---	---	---	---	---	296	258	282	419	439	452
22	---	---	---	---	---	---	297	288	292	411	445	449
23	---	---	---	---	---	---	306	268	284	424	451	451
24	---	---	---	---	---	---	310	246	236	427	456	459
25	---	---	---	---	---	---	308	254	205	401	453	467
26	---	---	---	---	---	---	318	274	210	428	435	469
27	---	---	---	---	---	---	315	295	212	428	437	472
28	---	---	---	---	---	---	336	304	221	429	445	462
29	---	---	---	---	---	---	317	314	237	415	455	457
30	---	---	---	---	---	---	321	324	229	413	439	448
31	---	---	---	---	---	---	---	330	---	408	460	---
MONTH	---	---	---	---	---	---	259	289	279	361	434	430

SUSQUEHANNA RIVER BASIN

01569980 CONODOGUINET CREEK AT WILLOW MILL BRIDGE, NEAR HOGESTOWN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY PM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	22.5	20.5	25.0	26.5	---
2	---	---	---	---	---	---	---	18.5	18.0	26.0	25.0	24.0
3	---	---	---	---	---	---	---	17.0	21.0	27.5	26.0	23.0
4	---	---	---	---	---	---	---	17.5	22.0	28.0	27.0	20.5
5	---	---	---	---	---	---	13.5	15.5	24.0	26.0	25.0	20.5
6	---	---	---	---	---	---	10.5	15.0	24.0	26.0	24.5	18.5
7	---	---	---	---	---	---	11.0	14.5	22.5	27.0	21.5	23.0
8	---	---	---	---	---	---	9.5	14.5	22.5	24.0	21.0	21.0
9	---	---	---	---	---	---	8.0	13.5	26.0	24.0	24.0	22.0
10	---	---	---	---	---	---	9.5	17.5	28.0	26.0	25.0	22.0
11	---	---	---	---	---	---	11.0	19.5	25.0	26.0	25.0	22.0
12	---	---	---	---	---	---	13.0	16.0	23.5	25.5	24.5	24.0
13	---	---	---	---	---	---	13.5	15.0	22.5	27.0	27.0	26.0
14	---	---	---	---	---	---	17.0	18.0	23.0	27.5	27.0	22.5
15	---	---	---	---	---	---	13.5	21.0	22.0	27.0	28.0	21.5
16	---	---	---	---	---	---	14.5	23.0	22.0	27.0	26.5	21.0
17	---	---	---	---	---	---	15.5	25.0	21.0	27.5	26.0	22.5
18	---	---	---	---	---	---	15.5	24.5	22.5	28.0	26.0	22.5
19	---	---	---	---	---	---	14.0	22.5	23.5	28.0	26.0	22.5
20	---	---	---	---	---	---	15.0	22.5	23.0	26.0	---	24.0
21	---	---	---	---	---	---	16.0	22.0	24.0	25.0	27.0	20.0
22	---	---	---	---	---	---	16.0	23.5	24.0	26.5	25.0	19.0
23	---	---	---	---	---	---	17.0	22.0	20.5	22.0	27.0	17.5
24	---	---	---	---	---	---	14.0	21.0	21.0	22.5	26.5	16.5
25	---	---	---	---	---	---	16.5	19.5	18.5	24.0	25.0	15.5
26	---	---	---	---	---	---	17.0	20.0	20.0	---	26.0	---
27	---	---	---	---	---	---	18.0	19.0	21.5	25.5	27.0	20.0
28	---	---	---	---	---	---	19.0	20.0	20.0	27.0	26.0	19.0
29	---	---	---	---	---	---	24.0	19.5	20.0	25.0	26.5	20.0
30	---	---	---	---	---	---	23.0	22.0	22.0	27.0	25.0	17.0
31	---	---	---	---	---	---	---	---	---	26.5	25.0	---
MONTH	---	---	---	---	---	---	15.0	19.5	22.5	26.0	25.5	21.0

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, at gaging station on right bank 720 ft (219 m) upstream from bridge on State Highway 944, 3.2 mi (5.15 km) upstream from mouth, and 3.3 mi (5.31 km) west of Enola.

DRAINAGE AREA.--0.77 mi^2 (1.99 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1974.
Sediment records: April 1969 to September 1974.

EXTREMES.--1973-74:
Turbidity: Maximum daily, 70 JTU Sept. 13; minimum daily, 1 JTU Oct. 26-28.

Period of record:
Turbidity (1971-74): Maximum daily, 200 JTU July 16, 1972; minimum daily, 1 JTU on many days.

REMARKS.--Sediment data for this station on page 424.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP.											
12...	1100	.13	11	10	40	10	55	6.0	4.7	1.4	178

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP.											
12...	0	146	15	4.9	.2	.90	.01	.05	.45	.50	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
SEP.											
12...	.01	.01	203	186	160	16	204	340	7.8	18.0	4.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.										
12...	0	0	0	0	0	2	<.5	3	0	10

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	4	2	5	4	4	7	2	7	10	4	35
2	10	4	3	5	4	6	7	2	4	4	30	10
3	4	2	3	5	3	5	6	10	4	4	15	50
4	3	2	3	5	2	3	45	3	4	4	6	15
5	2	2	15	5	2	3	10	3	4	5	3	6
6	2	2	5	5	2	3	3	5	4	5	3	6
7	2	2	3	4	2	3	4	3	4	5	4	20
8	2	3	3	4	2	6	6	3	4	5	4	5
9	2	3	30	4	2	15	10	7	4	5	8	3
10	2	3	8	4	2	10	7	3	5	7	4	3
11	2	3	5	8	3	5	5	3	4	6	4	3
12	2	2	4	4	3	4	4	45	4	5	5	20
13	2	3	5	4	3	4	10	10	3	4	5	70
14	2	4	5	4	3	3	25	5	3	4	4	25
15	2	4	4	4	3	3	15	3	4	4	4	7
16	2	4	4	10	3	15	6	3	45	4	10	5
17	2	3	4	6	3	5	6	3	15	4	25	4
18	2	3	4	5	3	3	7	3	4	4	6	4
19	2	3	4	4	8	3	6	3	3	5	3	4
20	2	2	15	4	6	3	4	3	7	4	3	4
21	2	2	20	25	4	40	3	3	5	4	3	10
22	2	2	6	5	45	8	3	15	3	3	5	6
23	3	3	5	3	8	6	3	10	25	3	5	4
24	3	5	4	5	6	5	3	3	6	5	5	3
25	2	4	4	5	5	4	3	3	5	4	5	3
26	1	3	15	9	4	3	3	3	4	4	6	3
27	1	2	8	6	4	3	3	4	4	3	6	3
28	1	10	7	9	3	3	3	3	25	8	6	10
29	25	3	6	6	---	4	3	3	7	20	20	5
30	6	2	5	5	---	55	3	3	3	5	9	3
31	3	---	5	4	---	20	---	10	---	5	3	---

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'21", long 76°58'35", Cumberland County, at gaging station on right bank 100 ft (30 m) upstream from bridge on Valley Street, 1.7 mi (2.7 km) upstream from mouth, and 2.4 mi (3.9 km) west of Enola.

DRAINAGE AREA.--0.76 mi^2 (1.97 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Turbidity: Maximum daily, 750 JTU Sept. 1; minimum daily, 2 JTU Oct. 26, 27.

Period of record:
Turbidity (1972-74): Maximum daily, 750 JTU Sept. 1, 1974; minimum daily, 2 JTU on several days each year.

REMARKS.--Sediment data for this station on page 427. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP. 12...	1210	.17	6.9	20	10	30	39	6.2	5.8	2.6	135

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP. 12...	0	111	19	4.3	.2	.57	.01	.02	.28	.30	.03

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 12...	.02	.00	166	151	120	12	169	260	7.8	20.0	3.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 12...	0	0	0	0	10	2	<.5	2	0	10

SUSQUEHANNA RIVER BASIN

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

TURBIDITY (JTU)   WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8	240	6	6	5	10	40	5	35	7	20	750
2	55	15	6	130	5	10	20	4	8	7	410	40
3	10	8	5	10	5	9	130	10	8	7	250	430
4	6	5	5	30	10	10	120	4	8	7	35	20
5	4	5	220	5	20	7	15	3	8	7	15	20
6	4	5	130	4	20	7	15	5	8	7	15	35
7	4	5	10	4	15	7	9	3	8	7	15	140
8	5	15	8	4	9	7	20	3	9	7	15	15
9	5	10	310	4	8	35	45	40	9	7	15	10
10	5	3	45	4	8	30	10	4	20	7	15	9
11	4	3	15	5	8	10	8	4	15	7	15	8
12	4	3	10	5	8	7	7	300	10	7	15	460
13	4	3	10	4	8	4	15	30	10	6	15	380
14	4	6	20	4	7	3	650	10	10	6	15	35
15	4	9	20	4	7	3	85	8	10	6	15	10
16	4	6	15	10	7	35	30	8	340	6	350	10
17	4	4	10	20	7	6	20	8	180	7	390	8
18	4	4	10	15	7	5	120	5	30	7	20	7
19	5	4	10	10	8	5	25	5	30	8	35	6
20	5	4	55	10	10	5	10	5	20	8	35	6
21	5	4	85	65	8	100	8	5	80	8	15	140
22	5	4	20	15	380	10	8	140	25	7	15	20
23	5	4	15	15	15	10	8	35	280	8	15	9
24	4	15	10	9	10	8	8	15	35	8	15	8
25	3	4	8	7	10	7	7	9	30	8	15	8
26	2	3	75	20	10	7	7	8	15	8	15	8
27	2	3	25	15	10	7	7	20	30	9	7	8
28	3	75	8	20	10	5	7	8	160	20	7	700
29	600	5	9	6	---	4	7	8	10	600	550	30
30	15	4	9	5	---	140	7	8	8	75	130	30
31	10	---	9	5	---	35	---	25	---	20	25	---

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.

LOCATION.--Lat 40°17'44", long 76°57'55", Cumberland County, at gaging station on left bank 120 ft (37 m) downstream from bridge on Valley Street, 2.6 mi (4.2 km) upstream from mouth, and 1.6 mi (2.6 km) west of Enola.

DRAINAGE AREA.--0.70 mi^2 (1.81 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Turbidity: Maximum daily, 1,100 JTU Sept. 1; minimum daily, 2 JTU on several days during April and May.

Period of record:
Turbidity (1972-74): Maximum daily, 1,100 JTU Sept. 1, 1974; minimum daily, 1 JTU on several days in October 1972.

REMARKS.--Sediment data for this station on page 430. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP. 12...	1000	.15	11	20	20	30	44	7.1	8.0	2.9	146

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP. 12...	0	120	22	9.2	.2	.09	.01	.06	.29	.35	.13

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 12...	.09	.02	186	177	140	19	204	310	7.6	18.0	5.9

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 12...	0	1	0	0	20	2	<.5	3	0	20

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	40	8	10	4	10	10	3	30	15	25	1100
2	110	15	6	8	4	10	10	3	6	15	400	80
3	10	10	5	10	4	5	10	6	3	15	260	650
4	10	8	5	10	4	4	70	3	3	15	100	35
5	15	7	190	5	4	3	20	2	3	10	35	20
6	10	7	55	4	4	3	8	3	290	10	30	25
7	10	7	15	9	3	3	6	2	650	9	20	110
8	35	60	10	7	3	3	10	2	25	9	20	25
9	15	20	220	6	3	50	30	30	15	9	25	20
10	9	20	25	5	3	15	6	4	15	10	20	20
11	7	5	10	6	3	8	5	3	45	10	20	20
12	6	5	10	6	3	6	4	250	10	9	40	370
13	5	15	15	5	4	4	20	25	8	8	260	240
14	5	15	20	5	4	3	110	3	6	8	35	65
15	15	6	8	4	3	3	50	3	8	8	65	20
16	20	4	7	6	3	30	9	4	220	7	900	15
17	15	10	8	10	3	8	7	5	110	6	1100	15
18	15	4	7	5	3	6	5	4	25	6	120	10
19	10	4	6	9	6	5	4	3	15	7	40	10
20	6	4	40	5	6	4	4	3	15	7	30	10
21	5	4	95	50	4	70	4	3	10	8	25	140
22	5	4	20	10	140	10	4	15	8	8	20	20
23	6	4	10	10	20	7	5	10	240	9	20	10
24	5	40	8	6	6	6	4	8	25	15	20	10
25	5	15	6	5	5	5	3	5	20	180	20	9
26	5	6	40	15	4	4	3	3	15	7	20	8
27	5	6	15	10	3	4	3	5	10	6	20	7
28	5	60	10	15	3	4	2	3	80	15	20	150
29	850	10	8	8	---	5	2	5	30	400	480	20
30	30	10	7	5	---	140	2	4	9	240	450	10
31	100	---	15	4	---	40	---	10	---	50	45	---

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.

LOCATION.--Lat 40°17'47", long 76°57'51", Cumberland County, at gaging station on right bank 20 ft (6 m) upstream from bridge on Valley Street, 2.6 mi (4.2 km) upstream from mouth, and 1.6 mi (2.6 km) west of Enola.

DRAINAGE AREA.--0.65 mi^2 (1.68 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Turbidity: Maximum daily, 1,100 JTU Oct. 29; minimum daily, 15 JTU Oct. 11, Jan. 5.

Period of record:
Turbidity (1972-74): Maximum, 1,800 JTU Sept. 14, 1973; minimum daily, 5 JTU Nov. 30 to Dec. 1, 1972.

REMARKS.--Sediment data for this station on page 433. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP. 12...	1400	.13	6.7	70	20	20	47	4.5	10	11	72

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP. 12...	22	96	60	8.0	.3	.20	.01	.03	.21	.24	.04

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 12...	.02	.07	215	205	140	40	154	340	9.5	23.0	.1

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 12...	<1	0	0	0	0	1	<.5	3	0	10

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	180	45	25	30	65	65	30	90	35	55	470
2	160	160	40	25	30	65	65	35	45	35	500	110
3	120	120	35	25	30	65	65	50	45	35	240	260
4	120	70	35	25	30	65	230	35	85	35	240	50
5	270	45	350	15	45	65	95	35	85	35	230	30
6	70	200	220	20	40	65	75	35	90	35	170	35
7	40	200	80	20	35	65	65	45	90	35	140	100
8	40	150	60	20	30	65	50	45	95	35	140	35
9	30	130	550	20	30	160	140	75	95	50	140	30
10	30	120	310	20	25	70	80	150	95	60	140	30
11	15	90	85	20	25	60	80	60	95	80	140	30
12	20	110	70	20	25	60	80	410	95	60	140	170
13	50	95	65	20	20	60	80	300	95	40	140	160
14	50	65	100	20	20	60	330	260	95	35	140	35
15	50	65	65	20	20	60	120	160	95	35	140	25
16	45	65	60	25	25	120	230	120	340	40	220	30
17	50	70	55	20	25	100	90	80	240	40	220	30
18	55	70	45	20	25	65	80	80	180	40	200	25
19	60	65	30	20	30	65	60	80	150	400	120	25
20	60	60	65	20	30	65	60	80	130	200	80	35
21	60	55	120	160	30	200	60	80	130	100	40	100
22	60	55	55	55	380	80	45	120	130	85	25	40
23	60	50	40	40	190	75	60	65	270	30	80	35
24	75	95	40	40	170	65	60	130	180	30	80	35
25	75	80	40	40	150	55	60	40	220	30	80	35
26	70	70	60	55	120	45	60	40	180	30	410	35
27	65	65	60	45	95	40	50	40	170	30	120	35
28	65	140	35	60	65	40	45	40	340	130	110	120
29	1100	45	20	20	---	35	40	40	210	490	200	35
30	700	40	20	30	---	240	25	45	70	210	230	35
31	310	---	20	30	---	200	---	75	---	120	140	---

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, at gaging station on right bank at upstream side of culvert on Valley Road, 1 mi (1.6 km) northwest of Enola, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--0.38 mi^2 (0.98 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1974.
Sediment records: April 1969 to September 1974.

EXTREMES.--1973-74:
Turbidity: Maximum daily, 850 JTU Oct. 29; minimum daily, 4 JTU Oct. 21-24.

Period of record:
Turbidity (1972-74): Maximum daily, 1,100 JTU Sept. 14, 1973; minimum daily, 1 JTU Oct. 21-22, 1972.

REMARKS.--Sediment data for this station on page 436.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
SEP. 12...	1450	.05	11	20	20	30	51	6.8	7.5	3.4	177

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP. 12...	0	145	19	4.0	.2	.86	.01	.04	.26	.30	.07

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
SEP. 12...	.06	.01	210	190	160	10	199	330	8.6	24.0	.7

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 12...	1	0	0	0	0	3	<.5	2	0	10

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	25	25	10	15	20	55	7	120	25	40	500
2	430	10	20	20	15	30	140	7	20	15	470	20
3	30	8	20	20	10	10	15	15	20	10	340	180
4	20	6	20	20	10	8	370	6	20	10	15	20
5	20	6	500	15	10	7	60	6	15	10	15	10
6	15	6	65	10	10	7	30	20	15	10	25	9
7	15	6	35	10	8	6	15	15	15	10	10	65
8	10	30	25	10	6	6	120	10	10	10	10	15
9	10	25	220	10	6	80	130	75	10	10	10	10
10	8	20	40	10	5	95	280	7	10	100	10	10
11	10	20	20	10	6	10	350	7	10	30	10	10
12	10	15	10	10	8	8	110	300	10	15	10	150
13	10	15	65	10	10	6	85	30	10	10	10	230
14	9	10	120	10	10	6	600	9	10	8	10	45
15	8	8	20	10	8	6	65	10	10	8	10	10
16	7	8	20	65	6	90	20	10	450	6	250	10
17	7	6	15	40	6	20	15	8	240	6	110	10
18	6	6	10	15	7	8	15	7	15	6	10	10
19	6	6	10	10	20	6	45	7	10	10	10	10
20	5	5	100	10	10	6	20	6	30	10	10	10
21	4	5	120	140	8	180	20	6	20	8	10	25
22	4	5	20	25	450	20	20	25	15	8	20	15
23	4	5	20	10	25	15	15	30	320	8	15	15
24	4	15	15	15	15	10	10	10	30	90	15	15
25	60	10	15	15	10	8	10	10	15	10	15	15
26	10	10	150	50	10	8	10	10	15	8	15	15
27	10	10	50	45	10	10	8	10	15	8	10	10
28	10	130	25	70	10	10	8	230	150	110	10	250
29	850	25	20	15	---	15	7	20	30	600	180	20
30	25	20	15	15	---	340	7	10	10	70	200	15
31	25	---	15	10	---	45	---	80	---	40	20	---

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.
(International Hydrological Decade River, National Stream-Quality Accounting Network,
and radiochemical station)

LOCATION.--Lat 40°15'27", long 76°53'12", Dauphin County, at Walnut Street Bridge in Harrisburg, 3,700 ft (1,128 m) upstream from gaging station.

DRAINAGE AREA.--24,100 mi^2 (62,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1944 to January 1953, March to July 1956, October 1956 to September 1974.
Biological analyses: July to September 1974.
Water temperatures: May to September 1974.
Sediment records: October 1963 to September 1968, April 1970 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum, 350 micromhos Sept. 1; minimum, 106 micromhos July 4, 5.
Dissolved oxygen: Maximum, 11.9 mg/l May 8; minimum, 5.1 mg/l Sept. 2.
pH: Maximum, 10.3 June 22; minimum, 6.6 July 3, 4.
Water temperatures: Maximum, 29.5°C June 10, July 15, Aug. 19, 23; minimum, 11.5°C May 7.

Period of record:
Specific conductance: Maximum, 350 micromhos Sept. 1, 1974; minimum, 106 micromhos July 4, 5, 1974.
Dissolved oxygen: Maximum, 11.9 mg/l May 8, 1974; minimum, 5.1 mg/l Sept. 2, 1974.
pH: Maximum, 10.3 June 22, 1974; minimum, 6.6 July 3, 4, 1974.
Water temperatures: Maximum, 29.5°C June 10, July 15, Aug. 19, 23, 1974; minimum, 11.5°C May 7, 1974.

REMARKS.--Sediment data for this station on page 439. Composite samples taken as part of the USGS-EPA surveillance network. No continuous records available for October through April.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	CROSS SECTION LOC-ATION (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DEC.										
28...	0850	--	149000	--	--	--	--	--	29	--
MAR.										
06...	1400	--	45600	--	22	6.2	5.2	1.4	45	0
27...	1050	120	44500	4.1	19	7.7	7.7	1.4	22	0
27...	1100	600	44500	3.5	17	5.0	7.0	1.3	31	0
27...	1105	1180	44500	4.1	15	5.0	7.5	1.2	24	0
27...	1130	2900	44500	4.5	14	4.2	3.5	1.1	11	0
27...	1135	3400	44500	2.3	17	5.4	4.4	1.2	43	1
27...	1140	3620	44500	.9	33	6.6	6.3	1.5	107	1
27...	1150	--	44500	3.3	18	6.0	7.0	1.3	39	0
JUNE										
19...	1000	120	24250	3.6	30	12	8.0	2.0	31	0
19...	1025	600	24250	2.5	25	8.1	7.1	1.9	42	0
19...	1055	1180	24250	3.9	20	6.7	4.4	1.4	19	0
19...	1120	3620	24250	5.1	36	6.4	7.0	2.5	104	0
19...	1140	3400	24250	2.7	24	6.0	6.1	1.9	72	0
19...	1155	2900	24250	3.7	19	6.3	4.3	1.4	27	0
19...	1210	--	24250	3.5	27	7.8	6.2	1.8	53	0
SEP.										
18...	0900	120	13300	3.5	28	12	7.5	1.9	24	0
18...	0910	600	13300	2.0	26	9.0	8.6	1.9	37	0
18...	0920	1180	13300	.6	21	7.4	5.0	1.7	23	0
18...	0935	2900	13300	.4	20	7.2	4.0	1.7	24	0
18...	0955	3400	13300	.4	28	7.6	6.0	1.8	86	0
18...	1015	3620	13300	3.8	52	7.8	11	2.6	168	0
18...	1030	--	13300	2.0	31	9.0	7.4	2.2	58	0

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	CYANIDE (CN) (MG/L)
DEC.									
28...	24	27	--	.1	--	56	32	5.0	.00
MAR.									
06...	37	41	8.4	--	--	80	44	--	--
27...	18	58	12	.1	126	79	61	--	--
27...	25	38	11	.1	103	63	38	--	--
27...	20	39	12	.1	100	58	38	--	--
27...	9	45	8.4	.1	90	56	47	--	--
27...	37	30	6.8	.1	92	65	28	--	--
27...	89	21	11	.2	142	110	20	--	--
27...	32	38	11	.1	109	70	38	--	--
JUNE									
19...	25	92	10	.2	173	120	99	--	--
19...	34	56	9.9	.2	132	96	61	--	--
19...	16	55	6.3	.2	107	78	62	--	--
19...	85	19	11	.3	139	120	31	--	--
19...	59	24	7.4	.2	108	85	26	--	--
19...	22	48	6.1	.1	102	73	51	--	--
19...	43	49	8.9	.2	131	100	56	--	--
SEP.									
18...	20	96	9.0	.1	170	120	100	--	--
18...	30	73	9.6	.2	149	100	72	--	--
18...	19	64	7.0	.1	118	83	64	--	--
18...	20	56	5.3	.1	107	80	60	--	--
18...	71	31	7.0	.1	124	100	31	--	--
18...	138	21	18	.2	200	160	24	--	--
18...	48	62	9.2	.1	152	110	67	--	--

DATE	TIME	CROSS SECTION LOCATION (FT)	TOTAL ALUMINUM (AL) (UG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
DEC.										
28...	0850	--	--	--	2300	--	250	--	0	--
JAN.										
23...	1400	--	800	--	3200	--	390	--	4	--
FEB.										
13...	1400	--	300	--	720	--	390	--	0	--
26...	1400	--	3300	--	7000	--	410	--	1	--
MAR.										
06...	1400	--	400	--	1000	--	340	--	--	--
27...	1050	120	40	0	2000	200	570	600	2	1
27...	1100	600	700	0	1900	500	310	290	1	1
27...	1105	1180	300	0	1400	300	350	340	1	1
27...	1130	2900	600	0	750	50	530	560	1	2
27...	1135	3400	0	0	310	40	200	150	2	2
27...	1140	3620	0	0	120	40	30	20	1	0
27...	1150	--	400	0	970	160	330	330	1	1
APR.										
09...	1530	--	900	--	2100	--	250	--	1	--
24...	1530	--	600	--	1200	--	250	--	1	--
MAY										
06...	1530	--	300	--	610	--	230	--	2	--
20...	1435	--	300	--	1000	--	160	--	<1	--
JUNE										
05...	1400	--	0	--	600	--	160	--	0	--
19...	1000	120	2600	60	3200	10	760	120	1	0
19...	1025	600	790	40	2700	20	460	0	<1	0
19...	1055	1180	640	20	1400	10	450	20	1	0
19...	1120	3620	330	10	680	40	30	30	1	0
19...	1140	3400	340	10	480	10	100	0	2	2
19...	1155	2900	300	30	670	20	270	0	1	1
19...	1210	--	190	60	440	20	120	20	2	1
JULY										
03...	0900	--	2000	--	4600	--	730	--	6	--
24...	1500	--	100	--	3500	--	120	--	0	--
AUG.										
07...	1430	--	340	--	350	--	150	--	1	--
21...	1430	--	130	--	230	--	130	--	2	--
SEP.										
04...	1530	--	580	--	1400	--	400	--	1	--
18...	0900	120	220	50	660	40	210	40	<1	1
18...	0910	600	230	100	600	40	170	10	1	0
18...	0920	1180	20	60	190	50	80	0	1	1
18...	0935	2900	70	50	250	60	100	10	1	<1
18...	0955	3400	70	50	180	60	30	0	2	1
18...	1015	3620	200	20	410	300	70	20	1	1
18...	1030	--	180	60	430	20	130	0	<1	<1

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
DEC.										
28...	1	--	--	--	0	--	--	7	--	7
JAN.										
23...	1	--	0	--	--	--	--	10	--	10
FEB.										
13...	0	--	0	--	--	--	--	10	--	2
26...	0	--	0	--	--	--	--	0	--	5
MAR.										
06...	0	--	0	--	--	--	--	0	--	4
27...	1	9	0	0	--	10	0	20	0	2
27...	1	2	0	<10	--	4	5	20	0	0
27...	0	1	0	10	--	5	5	10	10	0
27...	0	0	0	0	--	7	5	20	10	0
27...	0	2	0	0	--	2	4	10	10	0
27...	0	0	0	10	--	0	2	20	10	0
27...	1	4	<10	10	--	5	5	20	10	1
APR.										
09...	0	--	0	--	--	--	--	10	--	2
24...	0	--	10	--	--	--	--	10	--	1
MAY										
06...	0	--	<10	--	--	--	--	0	--	4
20...	0	--	10	--	--	--	--	10	--	3
JUNE										
05...	1	--	10	--	--	--	--	0	--	1
19...	0	11	10	<10	--	10	0	10	0	6
19...	0	0	10	<10	--	5	0	10	0	4
19...	0	0	10	<10	--	6	0	10	0	2
19...	0	1	10	<10	--	0	0	0	0	0
19...	0	0	10	10	--	0	0	10	0	5
19...	0	0	<10	0	--	3	0	0	0	0
19...	0	0	<10	0	--	0	0	0	0	0
JULY										
03...	0	--	10	--	--	--	--	10	--	10
24...	0	--	<10	--	--	--	--	10	--	2
AUG.										
07...	0	--	0	--	--	--	--	20	--	0
21...	0	--	10	--	--	--	--	0	--	1
SEP.										
04...	0	--	0	--	--	--	--	10	--	7
18...	0	1	0	0	--	3	1	10	10	1
18...	0	0	0	0	--	2	0	10	10	1
18...	0	0	0	0	--	1	0	10	10	0
18...	0	0	0	0	--	2	0	10	10	3
18...	0	0	0	0	--	1	0	0	0	1
18...	0	0	0	<10	--	1	0	0	10	2
18...	0	0	0	0	--	2	1	0	10	2

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC.									
20...	--	--	--	--	--	--	--	--	--
JAN.									
23...	--	--	--	--	--	0	--	40	--
FEB.									
13...	--	--	--	--	--	0	--	50	--
26...	--	--	--	--	--	0	--	40	--
MAR.									
06...	--	--	--	--	--	0	--	120	--
27...	0	<.5	<.5	2	2	0	0	50	30
27...	0	<.5	<.5	2	2	0	0	60	10
27...	0	<.5	<.5	2	1	0	0	50	20
27...	0	<.5	<.5	2	2	0	0	50	40
27...	0	<.5	<.5	2	2	0	0	30	20
27...	0	<.5	<.5	2	2	0	0	40	20
27...	0	<.5	<.5	3	<1	0	0	40	10
APR.									
09...	--	--	--	--	--	0	--	30	--
24...	--	--	--	--	--	0	--	120	--
MAY									
06...	--	--	--	--	--	0	--	50	--
20...	--	--	--	--	--	0	--	60	--
JUNE									
05...	--	--	--	--	--	0	--	10	--
19...	2	.5	.5	0	0	0	0	50	60
19...	4	<.5	<.5	0	0	0	0	40	10
19...	1	<.5	<.5	2	0	0	0	30	10
19...	2	<.5	<.5	1	1	0	0	40	10
19...	1	<.5	<.5	<1	<1	0	0	0	0
19...	0	<.5	<.5	1	1	0	0	50	10
19...	1	<.5	<.5	0	1	0	0	20	30
JULY									
03...	--	--	--	--	--	0	--	80	--
24...	--	--	--	--	--	0	--	20	--
AUG.									
07...	--	--	--	--	--	0	--	10	--
21...	--	--	--	--	--	0	--	150	--
SEP.									
04...	--	--	--	--	--	1	--	20	--
18...	3	<.5	<.5	2	2	1	0	70	10
18...	1	<.5	<.5	2	2	0	0	0	10
18...	0	<.5	<.5	2	<2	0	0	40	0
18...	1	<.5	<.5	2	2	0	0	40	10
18...	1	<.5	<.5	3	3	0	0	100	10
18...	1	<.5	<.5	2	3	0	0	0	10
18...	2	<.5	<.5	3	2	1	0	0	0

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	CROSS SECTION LOC-ATION (FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.									
24...	1500	--	--	--	--	--	--	--	--
NOV.									
29...	0830	--	--	--	--	--	--	--	--
DEC.									
28...	0850	--	1.4	--	--	--	.09	.51	.60
JAN.									
23...	1340	120	2.0	--	2.1	--	.32	.60	.92
23...	1341	600	1.1	--	1.2	--	.24	.46	.70
23...	1342	1180	.70	--	.70	--	.10	.29	.39
23...	1343	2900	1.2	--	1.2	--	.13	.52	.65
23...	1344	3400	1.6	--	1.6	--	.12	.52	.64
23...	1345	3620	3.2	--	3.2	--	.14	.66	.80
23...	1350	--	1.8	--	1.9	--	.16	.48	.64
FEB.									
13...	1400	--	1.4	--	1.4	--	.35	.36	.71
26...	1330	120	1.4	--	1.4	--	--	--	1.1
26...	1331	600	1.3	--	1.3	--	--	--	1.1
26...	1332	1180	1.3	--	1.3	--	--	--	.97
26...	1333	2900	.90	--	.90	--	--	--	.46
26...	1334	3400	1.0	--	1.0	--	--	--	.22
26...	1335	3620	2.7	--	2.7	--	--	--	.26
26...	1340	--	1.5	--	1.5	--	.15	.80	.95
26...	1400	--	--	--	--	--	--	--	--
MAR.									
06...	1400	--	.99	.01	1.0	--	.21	.46	.67
27...	1050	120	--	.02	--	1.0	.27	.10	.37
27...	1100	600	--	.03	--	.83	.15	.19	.34
27...	1105	1180	--	.02	--	.75	.17	.03	.20
27...	1130	2900	--	.01	--	.59	.07	.04	.11
27...	1135	3400	--	.02	--	.62	.10	.00	.09
27...	1140	3620	--	.03	--	1.8	.14	.16	.30
27...	1150	--	.60	.03	--	.97	.11	.13	.24
APR.									
09...	1530	--	--	--	.90	--	.07	.27	.34
24...	1430	120	--	--	.91	--	--	--	.42
24...	1440	600	--	--	.84	--	--	--	.40
24...	1445	1180	--	--	.70	--	--	--	.28
24...	1500	2900	--	--	.58	--	--	--	.12
24...	1505	3400	--	--	.65	--	--	--	.25
24...	1509	3620	--	--	2.3	--	--	--	.32
24...	1530	--	--	--	1.0	--	.09	.24	.33
MAY									
06...	1530	--	--	--	.61	--	.00	.38	.38
20...	1400	120	--	--	.63	--	.04	.76	.80
20...	1405	600	--	--	.46	--	.10	.41	.51
20...	1415	1180	--	--	.37	--	.05	.18	.23
20...	1420	2900	--	--	.35	--	.05	.38	.43
20...	1425	3400	--	--	.59	--	.01	.41	.42
20...	1430	3620	--	--	1.8	--	.08	.53	.61
20...	1435	--	--	--	.74	--	.03	.32	.35
JUNE									
05...	1400	--	--	--	.44	--	.04	.44	.48
19...	1000	120	--	--	1.3	--	.04	.92	.96
19...	1025	600	--	--	.88	--	.06	.74	.80
19...	1055	1180	--	--	.68	--	.03	.34	.37
19...	1120	3620	--	--	1.9	--	.09	.56	.65
19...	1140	3400	--	--	.93	--	.10	.25	.35
19...	1155	2900	--	--	.64	--	.03	.32	.35
19...	1210	--	--	--	1.1	--	.03	.45	.48
JULY									
03...	0900	--	--	--	.89	--	.04	.73	.77
24...	1500	--	--	--	.38	--	.08	.44	.52
AUG.									
07...	1430	--	--	--	.60	--	.19	.13	.32
21...	1430	--	--	--	.17	--	.20	.16	.36
SEP.									
04...	1530	--	--	--	.89	--	.21	.45	.66
18...	0900	120	--	--	1.1	--	.11	.29	.40
18...	0910	600	--	--	.41	--	.13	.42	.55
18...	0920	1180	--	--	.21	--	.07	.10	.17
18...	0935	2900	--	--	.21	--	.06	.03	.09
18...	0955	3400	--	--	.30	--	.18	.15	.33
18...	1015	3620	--	--	2.1	--	.24	.14	.38
18...	1030	--	--	--	.75	--	.10	.31	.41

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SUS- PENDED SOLIDS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.									
24...	--	--	237	2	360	7.1	15.0	2	11.2
NOV.									
29...	--	--	176	56	247	6.3	8.0	--	10.8
DEC.									
28...	--	.14	114	68	200	6.5	3.0	25	13.8
JAN.									
23...	3.0	.14	135	--	193	6.9	4.0	--	--
23...	1.9	.14	--	--	181	6.9	2.5	--	--
23...	1.1	.10	--	--	146	6.7	3.0	--	--
23...	1.8	.15	--	--	130	7.1	4.0	--	--
23...	2.2	.19	--	--	126	7.2	5.0	--	--
23...	4.0	.18	--	--	183	7.5	5.0	--	--
23...	2.5	.15	135	79	175	6.6	4.0	30	12.1
FEB.									
13...	2.1	.08	139	9	176	7.5	3.0	7	14.4
26...	2.5	.05	--	--	163	6.8	1.0	90	--
26...	2.4	.08	--	--	137	6.7	--	130	--
26...	2.3	.07	--	--	133	6.8	1.5	100	--
26...	1.4	.02	--	--	137	6.8	1.0	45	--
26...	1.2	.01	--	--	150	6.8	1.0	15	--
26...	3.0	.06	--	--	220	6.7	1.5	10	--
26...	2.4	.12	120	186	165	6.8	1.0	65	13.8
26...	--	--	--	--	--	--	--	--	--
MAR.									
06...	1.7	.05	129	19	220	7.5	9.0	8	11.4
27...	--	.06	149	--	222	6.8	6.0	15	--
27...	--	.06	119	--	194	6.9	6.0	15	--
27...	--	.04	122	--	170	6.9	6.0	10	--
27...	--	.03	95	--	149	6.6	6.0	8	--
27...	--	.02	102	--	156	9.0	6.0	5	--
27...	--	.07	155	--	253	8.6	6.0	3	--
27...	--	.03	119	16	185	8.0	6.0	10	12.6
APR.									
09...	1.2	.06	113	58	160	6.8	6.5	--	12.2
24...	1.3	.39	--	--	270	6.9	10.0	--	--
24...	1.2	.62	--	--	230	7.1	10.0	--	--
24...	.98	.37	--	--	190	7.5	10.0	--	--
24...	.70	.36	--	--	170	7.5	10.0	--	--
24...	.90	.23	--	--	200	8.0	10.0	--	--
24...	2.6	.11	--	--	340	8.0	10.0	--	--
24...	1.3	.05	121	21	204	7.6	10.0	8	11.4
MAY									
06...	.99	.05	143	9	240	7.4	14.0	3	10.2
20...	1.4	.05	--	--	240	6.5	20.0	--	--
20...	.97	.07	--	--	195	6.8	20.0	--	--
20...	.60	.03	--	--	150	7.0	20.0	--	--
20...	.78	.01	--	--	130	7.1	21.0	--	--
20...	1.0	.07	--	--	160	7.2	21.0	--	--
20...	2.4	.18	--	--	280	7.2	21.0	--	--
20...	1.1	.07	135	33	195	7.5	20.0	4	10.2
JUNE									
05...	.92	.03	150	7	240	6.5	25.0	5	6.8
19...	2.3	.14	197	--	320	6.7	22.0	30	9.0
19...	1.7	.10	161	--	260	7.2	22.0	30	9.0
19...	1.1	.04	125	--	210	7.4	23.0	2	9.0
19...	2.6	.22	166	--	280	7.6	21.0	20	--
19...	1.3	.09	124	--	220	7.8	22.0	20	9.0
19...	.99	.05	125	--	210	7.2	23.0	4	9.0
19...	1.6	.08	155	53	226	8.0	22.0	2	9.0
JULY									
03...	1.7	.18	119	138	205	7.4	22.5	30	7.6
24...	.90	.07	165	10	290	8.0	23.0	4	9.0
AUG.									
07...	.92	.13	190	11	300	9.0	25.0	6	9.6
21...	.53	.09	217	15	365	8.8	27.0	9	8.8
SEP.									
04...	1.6	.12	175	94	260	7.6	20.0	30	8.4
18...	1.5	.04	201	--	320	7.5	20.0	7	8.6
18...	.96	.04	169	--	290	8.3	22.0	5	8.6
18...	.38	.01	146	--	215	8.1	21.0	2	8.6
18...	.30	.01	124	--	210	7.8	20.0	4	8.6
18...	.63	.05	149	--	290	8.7	21.0	5	8.6
18...	2.5	.28	228	--	410	7.9	20.0	10	8.6
18...	1.2	.06	176	8	280	8.1	21.5	6	8.6

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
OCT.									
24...	--	2.0	--	--	700	40	--	--	--
NOV.									
29...	--	2.6	--	--	6700	700	--	--	--
DEC.									
28...	--	1.0	15	--	11000	1100	--	3.0	--
JAN.									
23...	--	--	--	--	--	320	1900	3.5	--
23...	--	--	--	--	--	400	3600	--	--
23...	--	--	--	--	--	300	1700	--	--
23...	--	--	--	--	--	1600	9000	--	--
23...	--	--	--	--	--	1700	10000	--	--
23...	--	--	--	--	--	1650	9200	--	--
23...	154	1.2	--	2.5	--	990	--	--	--
FEB.									
13...	--	.2	--	.3	--	E20	--	.0	--
26...	--	--	--	--	--	800	320	--	--
26...	--	--	--	--	--	1200	450	--	--
26...	--	--	--	--	--	700	700	--	--
26...	--	--	--	--	--	160	100	--	--
26...	--	--	--	--	--	65	E18	--	--
26...	--	--	--	--	--	65	E15	--	--
26...	92	1.6	--	1.6	--	500	--	--	--
26...	--	--	--	--	--	--	--	2.5	--
MAR.									
06...	10	.8	2.3	1.4	--	47	--	1.5	--
27...	--	--	5.6	--	--	65	56	6.5	--
27...	--	--	6.2	--	--	3	3	6.0	--
27...	--	--	4.8	--	--	6	20	4.5	--
27...	--	--	4.4	--	--	3	3	6.0	--
27...	--	--	.1	--	--	3	16	8.0	--
27...	--	--	.4	--	--	980	710	--	--
27...	36	.6	.6	1.5	--	360	160	--	--
APR.									
09...	10	.8	--	1.9	--	510	--	1.5	--
24...	--	--	--	--	--	200	85	--	--
24...	--	--	--	--	--	70	35	--	--
24...	--	--	--	--	--	130	120	--	--
24...	--	--	--	--	--	27	130	--	--
24...	--	--	--	--	--	9	66	--	--
24...	--	--	--	--	--	110	830	--	--
24...	9	.6	--	3.0	--	91	--	--	--
MAY									
06...	9	3.6	--	33	--	110	--	2.0	--
20...	--	--	--	--	--	500	850	--	--
20...	--	--	--	--	--	40	660	--	--
20...	--	--	--	--	--	40	290	--	--
20...	--	--	--	--	--	15	160	--	--
20...	--	--	--	--	--	17	160	--	--
20...	--	--	--	--	--	120	180	--	--
20...	11	2.0	--	8.7	--	130	--	2.5	--
JUNE									
05...	12	2.4	--	11	--	10	--	--	--
19...	33	--	9.9	8.0	--	680	1000	4.8	--
19...	22	--	4.2	22	--	190	180	--	--
19...	10	--	1.2	8.0	--	200	180	1.7	--
19...	16	--	4.2	5.6	--	420	450	--	--
19...	18	--	1.8	220	--	170	100	2.9	--
19...	10	--	2.7	18	--	140	100	1.9	--
19...	10	4.2	.8	22	--	300	340	2.9	--
JULY									
03...	24	3.0	--	7.6	--	1200	--	7.4	--
24...	12	3.4	--	11	--	--	340	7.2	0
AUG.									
07...	11	4.0	--	19	--	230	--	4.0	0
21...	14	5.0	--	16	--	260	145	4.5	0
SEP.									
04...	16	3.6	--	15	--	2440	--	7.3	0
18...	14	--	1.2	22	--	370	680	5.5	--
18...	16	--	.3	26	--	40	670	7.9	--
18...	8	--	.3	10	--	40	730	--	--
18...	6	--	.6	9.2	--	30	330	--	--
18...	8	--	.3	22	--	95	570	--	--
18...	9	--	3.4	9.4	--	520	1000	--	--
18...	11	1.4	.7	15	--	220	590	--	1

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
JAN. 17...	1315	150	15	<1.7	1.1	2.1	1.3	1.7	1.1	.02	.05
MAR. 12...	1115	68	110	<.9	6.3	2.3	7.8	1.9	6.6	.04	.01
SEP. 17...	1400	120	6	<1.3	<.4	2.9	<.4	2.4	<.4	.02	.02

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OCCURRENCE OF PHYTOPLANKTON

Date of sample collection	7-24-74	8-21-74	9-18-74
Time	1500	1430	1030
Total count (cells/ml)	62,000	140,000	33,000
Phytoplankton taxa	Percent of total		
CHLOROPHYTA			
.Chlorophyceae (green algae)			
....Actinastrum	4	4	4
....Botryococcus	41	20	--
....Scenedesmus	4	9	10
....Selenastrum	3	1	2
CHRYSOPHYTA			
.Bacillariophyceae (diatoms)			
....Cyclotella	6	1	11
....Micractinium	--	7	2
....Navicula	2	--	1
CYANOPHYTA			
.Myxophyceae (blue-green algae)			
....Anacystis	22	35	21
....Lyngbya	3	--	--

PHYLUM
.Class
..Order
...Family
....Genus

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	204	193	200
2	---	---	---	---	---	---	---	---	---	204	197	202
3	---	---	---	---	---	---	---	---	---	203	187	195
4	---	---	---	---	---	---	---	---	---	187	178	180
5	---	---	---	---	---	---	---	---	---	180	178	180
6	---	---	---	---	---	---	---	---	---	178	167	171
7	---	---	---	---	---	---	---	---	---	170	163	165
8	---	---	---	---	---	---	---	---	---	168	164	166
9	---	---	---	---	---	---	---	---	---	172	168	170
10	---	---	---	---	---	---	---	---	---	180	173	175
11	---	---	---	---	---	---	---	---	---	183	174	180
12	---	---	---	---	---	---	---	---	---	180	160	170
13	---	---	---	---	---	---	---	---	---	163	153	158
14	---	---	---	---	---	---	---	---	---	163	128	150
15	---	---	---	---	---	---	---	---	---	162	130	138
16	---	---	---	---	---	---	---	---	---	137	133	136
17	---	---	---	---	---	---	---	---	---	133	129	130
18	---	---	---	---	---	---	---	---	---	137	133	134
19	---	---	---	---	---	---	---	---	---	139	135	138
20	---	---	---	---	---	---	---	---	---	142	137	138
21	---	---	---	---	---	---	---	---	---	158	143	152
22	---	---	---	---	---	---	---	---	---	163	159	162
23	---	---	---	---	---	---	---	---	---	164	161	163
24	---	---	---	---	---	---	---	---	---	164	162	163
25	---	---	---	---	---	---	---	---	---	170	162	166
26	---	---	---	---	---	---	---	---	---	173	167	170
27	---	---	---	---	---	---	---	---	---	179	173	177
28	---	---	---	---	---	---	---	---	---	183	178	180
29	---	---	---	---	---	---	---	---	---	195	183	188
30	---	---	---	---	---	---	---	---	---	206	193	200
31	---	---	---	---	---	---	---	---	---	209	205	207
MONTH	---	---	---	---	---	---	---	---	---	209	128	168

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	209	205	207	221	208	215	245	220	230	350	313	333
2	202	199	201	222	157	200	239	200	222	324	296	305
3	204	200	202	160	131	145	240	213	233	---	---	---
4	197	190	192	131	106	113	239	225	230	---	---	---
5	196	191	194	114	106	110	236	207	217	254	225	240
6	196	192	194	128	114	120	226	207	220	224	187	208
7	209	197	204	132	128	130	248	227	232	187	152	161
8	226	209	219	158	132	140	246	238	243	180	159	168
9	238	226	232	161	157	159	244	240	242	189	180	186
10	233	220	226	167	161	164	249	242	246	194	187	189
11	220	213	216	167	162	165	252	248	250	197	188	193
12	220	213	216	169	162	164	264	249	256	193	185	190
13	224	220	222	177	168	172	268	262	265	188	183	186
14	228	224	226	180	171	175	270	260	267	195	185	190
15	234	228	231	184	173	180	270	262	267	203	188	195
16	237	219	234	188	182	185	282	268	275	215	202	210
17	247	233	241	190	188	189	281	268	273	216	202	210
18	247	208	226	203	191	198	285	275	279	---	---	---
19	207	197	200	212	201	204	290	282	286	---	---	---
20	200	187	191	229	212	223	296	286	290	---	---	---
21	199	187	193	230	224	228	302	294	298	---	---	---
22	197	183	188	237	228	233	312	303	305	---	---	---
23	188	183	185	233	222	227	312	302	308	---	---	---
24	190	181	185	222	214	218	316	309	311	---	---	---
25	184	182	183	224	217	221	311	305	309	---	---	---
26	187	183	185	231	224	227	330	310	318	---	---	---
27	187	183	185	239	230	237	334	328	330	---	---	---
28	194	186	190	243	237	239	336	327	332	---	---	---
29	200	194	198	232	202	228	338	334	336	---	---	---
30	207	198	202	238	217	226	343	333	338	---	---	---
31	---	---	---	245	214	235	338	334	335	---	---	---
MONTH	247	181	206	245	106	189	343	200	276	---	---	---

SUSQUEHANNA RIVER BASIN

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	10.5	9.3	10.0
2	---	---	---	---	---	---	---	---	---	11.1	9.6	10.4
3	---	---	---	---	---	---	---	---	---	10.9	9.8	10.3
4	---	---	---	---	---	---	---	---	---	11.1	9.9	10.5
5	---	---	---	---	---	---	---	---	---	11.4	10.2	10.8
6	---	---	---	---	---	---	---	---	---	11.5	10.4	10.9
7	---	---	---	---	---	---	---	---	---	11.8	10.8	11.3
8	---	---	---	---	---	---	---	---	---	11.9	11.1	11.4
9	---	---	---	---	---	---	---	---	---	11.2	10.6	10.9
10	---	---	---	---	---	---	---	---	---	11.5	10.6	11.0
11	---	---	---	---	---	---	---	---	---	11.6	10.5	11.1
12	---	---	---	---	---	---	---	---	---	11.0	10.2	10.5
13	---	---	---	---	---	---	---	---	---	11.4	10.3	10.7
14	---	---	---	---	---	---	---	---	---	11.2	10.6	10.7
15	---	---	---	---	---	---	---	---	---	10.5	10.2	10.4
16	---	---	---	---	---	---	---	---	---	10.3	10.0	10.2
17	---	---	---	---	---	---	---	---	---	9.8	9.6	9.7
18	---	---	---	---	---	---	---	---	---	9.9	9.4	9.6
19	---	---	---	---	---	---	---	---	---	9.8	9.2	9.5
20	---	---	---	---	---	---	---	---	---	10.2	9.3	9.8
21	---	---	---	---	---	---	---	---	---	11.1	9.3	10.1
22	---	---	---	---	---	---	---	---	---	11.1	9.3	10.0
23	---	---	---	---	---	---	---	---	---	10.5	8.8	9.6
24	---	---	---	---	---	---	---	---	---	10.0	8.8	9.4
25	---	---	---	---	---	---	---	---	---	10.0	8.9	9.5
26	---	---	---	---	---	---	---	---	---	10.2	9.1	9.7
27	---	---	---	---	---	---	---	---	---	10.3	9.2	9.7
28	---	---	---	---	---	---	---	---	---	10.4	9.3	9.9
29	---	---	---	---	---	---	---	---	---	10.2	9.1	9.6
30	---	---	---	---	---	---	---	---	---	10.7	9.0	9.8
31	---	---	---	---	---	---	---	---	---	9.8	8.6	9.2
MONTH	---	---	---	---	---	---	---	---	---	11.9	8.6	10.2

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	8.4	9.4	9.3	8.1	8.7	9.5	7.0	8.4	8.0	5.7	6.9
2	10.1	8.6	9.3	8.6	7.5	7.9	8.8	6.5	7.7	8.3	5.1	6.4
3	10.8	8.8	9.8	8.0	7.6	7.8	9.1	7.0	8.0	---	---	---
4	10.8	8.7	9.9	8.2	8.0	8.1	9.4	7.1	8.2	---	---	---
5	10.3	8.4	9.4	8.2	7.8	8.0	10.1	7.1	8.6	---	---	---
6	10.1	8.1	9.2	8.5	7.8	8.1	11.7	7.0	9.2	9.1	8.6	8.8
7	10.0	7.9	9.0	8.8	7.6	8.2	11.4	7.1	9.3	9.3	8.9	9.2
8	10.3	7.7	9.0	10.3	7.4	8.8	9.8	6.7	8.3	9.4	8.8	9.0
9	10.2	7.8	9.1	11.2	7.7	9.4	8.8	6.0	7.5	10.4	8.6	9.3
10	10.2	7.1	8.7	10.8	7.6	9.0	---	---	---	10.5	8.6	9.5
11	9.5	6.5	8.2	10.2	7.3	8.8	---	---	---	10.3	8.6	9.3
12	10.2	6.9	8.4	10.1	7.8	9.0	---	---	---	10.3	8.3	9.0
13	10.6	7.6	9.0	9.9	7.7	8.8	---	---	---	9.7	7.7	8.7
14	10.4	7.7	8.7	9.7	7.5	8.7	---	---	---	9.7	7.5	8.5
15	8.9	7.4	8.0	9.6	7.0	8.6	9.0	6.2	7.7	9.7	7.9	8.8
16	10.2	7.4	8.1	9.8	7.1	8.7	8.8	6.1	7.4	10.1	8.2	9.1
17	10.8	8.1	9.5	9.9	7.4	8.7	8.1	5.8	7.0	10.0	8.1	9.1
18	9.2	7.8	8.5	9.7	7.2	8.5	8.4	6.1	7.3	---	---	---
19	8.7	7.4	8.1	8.7	6.8	7.9	9.3	6.0	7.6	---	---	---
20	9.1	7.4	8.2	8.9	7.0	8.0	9.4	6.3	7.8	---	---	---
21	9.3	7.4	8.4	9.8	7.4	8.7	9.3	5.8	7.6	---	---	---
22	9.8	7.3	8.6	10.1	7.4	8.8	8.2	6.0	7.1	---	---	---
23	8.9	7.3	8.0	9.2	7.2	8.2	9.5	5.9	7.5	---	---	---
24	9.6	7.7	8.5	10.2	7.4	8.6	9.3	6.0	7.7	---	---	---
25	9.1	7.7	8.3	10.6	7.9	9.2	9.3	6.2	7.7	---	---	---
26	9.9	7.9	8.8	9.5	7.5	8.6	9.1	5.9	7.4	---	---	---
27	10.1	8.1	9.0	10.1	7.3	8.6	9.3	5.8	7.3	---	---	---
28	9.8	8.1	9.0	9.8	6.9	8.4	9.2	5.7	7.2	---	---	---
29	10.4	8.3	9.3	9.4	6.4	7.7	8.6	5.4	6.9	---	---	---
30	9.6	8.4	9.0	10.3	6.5	8.3	8.3	5.3	6.6	---	---	---
31	---	---	---	11.0	6.7	8.7	9.1	5.8	7.4	---	---	---
MONTH	10.8	6.5	8.8	11.2	6.4	8.5	11.7	5.3	7.7	---	---	---

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.1	7.3	7.7
2	---	---	---	---	---	---	---	---	---	8.6	7.5	8.1
3	---	---	---	---	---	---	---	---	---	8.4	7.5	7.8
4	---	---	---	---	---	---	---	---	---	8.4	7.4	7.8
5	---	---	---	---	---	---	---	---	---	8.5	7.4	7.8
6	---	---	---	---	---	---	---	---	---	8.1	7.2	7.6
7	---	---	---	---	---	---	---	---	---	8.2	7.3	7.6
8	---	---	---	---	---	---	---	---	---	8.2	7.4	7.7
9	---	---	---	---	---	---	---	---	---	7.7	7.2	7.4
10	---	---	---	---	---	---	---	---	---	8.0	6.9	7.4
11	---	---	---	---	---	---	---	---	---	8.4	7.4	7.8
12	---	---	---	---	---	---	---	---	---	7.8	7.2	7.4
13	---	---	---	---	---	---	---	---	---	7.6	7.2	7.3
14	---	---	---	---	---	---	---	---	---	7.4	6.9	7.1
15	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
16	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
17	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
18	---	---	---	---	---	---	---	---	---	7.3	7.1	7.2
19	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
20	---	---	---	---	---	---	---	---	---	8.0	7.2	7.6
21	---	---	---	---	---	---	---	---	---	8.9	7.4	8.1
22	---	---	---	---	---	---	---	---	---	9.0	7.8	8.4
23	---	---	---	---	---	---	---	---	---	8.9	7.6	8.2
24	---	---	---	---	---	---	---	---	---	8.5	7.5	7.9
25	---	---	---	---	---	---	---	---	---	8.5	7.4	8.0
26	---	---	---	---	---	---	---	---	---	8.7	7.5	8.1
27	---	---	---	---	---	---	---	---	---	8.7	7.7	8.3
28	---	---	---	---	---	---	---	---	---	8.9	7.7	8.4
29	---	---	---	---	---	---	---	---	---	8.8	7.9	8.4
30	---	---	---	---	---	---	---	---	---	9.0	7.5	8.3
31	---	---	---	---	---	---	---	---	---	8.6	7.8	8.2
MONTH	---	---	---	---	---	---	---	---	---	9.0	6.7	7.7

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	7.3	8.0	8.6	7.6	8.0	9.1	8.3	8.7	---	---	---
2	8.6	7.5	8.1	7.8	6.9	7.2	8.6	7.6	8.2	---	---	---
3	8.9	7.5	8.3	6.9	6.6	6.7	8.7	7.6	8.2	---	---	---
4	9.1	7.6	8.5	6.7	6.6	6.7	9.2	7.7	8.3	---	---	---
5	9.1	7.9	8.7	6.9	6.7	6.8	9.0	7.9	8.5	---	---	---
6	9.1	7.8	8.6	7.3	6.7	7.0	9.4	7.8	8.7	---	---	---
7	9.1	7.9	8.6	8.1	6.9	7.4	9.6	8.8	9.2	---	---	---
8	9.1	7.8	8.5	9.0	7.0	8.1	9.5	8.7	9.2	---	---	---
9	9.3	8.0	8.7	9.3	7.6	8.6	9.3	8.6	9.0	---	---	---
10	9.3	8.2	8.9	9.4	8.5	9.0	---	---	---	---	---	---
11	9.4	8.3	9.0	9.3	8.1	8.9	---	---	---	---	---	---
12	9.4	8.6	9.0	9.3	8.4	9.0	---	---	---	---	---	---
13	9.4	8.8	9.2	9.3	8.4	8.9	---	---	---	---	---	---
14	9.4	9.0	9.3	9.2	8.6	9.0	---	---	---	---	---	---
15	9.2	8.5	8.9	9.3	8.5	8.9	---	---	---	---	---	---
16	9.0	8.0	8.6	9.6	9.1	9.3	---	---	---	---	---	---
17	9.8	8.2	9.0	---	---	---	---	---	---	---	---	---
18	9.4	8.1	8.6	---	---	---	---	---	---	---	---	---
19	8.5	7.5	8.0	9.0	8.3	8.7	---	---	---	---	---	---
20	9.6	7.7	8.4	8.9	7.8	8.3	---	---	---	---	---	---
21	9.6	7.9	8.7	9.3	8.1	8.8	---	---	---	---	---	---
22	10.3	7.9	9.1	9.3	8.8	9.0	---	---	---	---	---	---
23	9.7	7.7	8.3	9.2	8.6	9.0	---	---	---	---	---	---
24	8.9	7.1	8.0	9.4	8.2	8.7	---	---	---	---	---	---
25	8.2	7.6	7.2	9.5	8.6	9.0	---	---	---	---	---	---
26	9.1	7.2	8.0	9.3	8.5	9.0	---	---	---	---	---	---
27	9.3	7.4	8.3	9.5	8.5	9.1	---	---	---	---	---	---
28	8.4	7.5	8.0	9.4	8.6	9.2	---	---	---	---	---	---
29	9.0	7.2	8.0	9.1	8.2	8.8	---	---	---	---	---	---
30	9.2	7.2	8.1	9.4	8.1	8.8	---	---	---	---	---	---
31	---	---	---	9.4	7.8	8.8	---	---	---	---	---	---
MONTH	10.3	7.1	8.5	9.6	6.6	8.4	---	---	---	---	---	---

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	19.5	18.0	19.0
2	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
3	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
4	---	---	---	---	---	---	---	---	---	16.5	14.5	15.5
5	---	---	---	---	---	---	---	---	---	16.0	15.0	15.5
6	---	---	---	---	---	---	---	---	---	14.5	13.5	14.0
7	---	---	---	---	---	---	---	---	---	14.0	11.5	13.0
8	---	---	---	---	---	---	---	---	---	14.0	12.0	13.0
9	---	---	---	---	---	---	---	---	---	13.5	13.0	13.5
10	---	---	---	---	---	---	---	---	---	16.0	13.5	14.5
11	---	---	---	---	---	---	---	---	---	16.5	14.5	15.5
12	---	---	---	---	---	---	---	---	---	16.0	15.0	15.5
13	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
14	---	---	---	---	---	---	---	---	---	16.0	14.5	15.0
15	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
16	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
17	---	---	---	---	---	---	---	---	---	19.5	18.0	18.5
18	---	---	---	---	---	---	---	---	---	21.0	19.5	20.0
19	---	---	---	---	---	---	---	---	---	21.0	19.5	20.0
20	---	---	---	---	---	---	---	---	---	21.0	19.5	20.0
21	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
22	---	---	---	---	---	---	---	---	---	23.5	21.0	22.0
23	---	---	---	---	---	---	---	---	---	23.5	22.0	23.0
24	---	---	---	---	---	---	---	---	---	23.0	21.0	22.0
25	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
26	---	---	---	---	---	---	---	---	---	21.0	18.5	20.0
27	---	---	---	---	---	---	---	---	---	20.5	19.0	19.5
28	---	---	---	---	---	---	---	---	---	21.0	18.0	19.5
29	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
30	---	---	---	---	---	---	---	---	---	23.0	19.5	21.0
31	---	---	---	---	---	---				22.0	20.5	21.0
MONTH	---	---	---	---	---	---	---	---	---	23.5	11.5	18.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.0	20.5	25.5	23.0	24.0	27.0	25.0	26.0	26.5	25.0	25.5
2	20.5	20.0	20.0	24.5	23.0	23.5	26.0	25.0	25.5	25.5	23.5	24.0
3	23.0	19.5	21.0	23.0	22.0	22.0	26.5	25.0	25.5	---	---	---
4	24.0	21.0	22.0	23.5	22.0	23.0	25.5	25.0	25.5	---	---	---
5	25.0	21.5	23.5	24.0	23.0	23.5	25.5	24.0	25.0	20.5	19.0	20.0
6	25.5	22.0	24.0	25.0	23.0	24.0	25.5	23.5	24.5	20.0	18.5	19.5
7	24.0	22.0	23.0	26.5	24.0	25.0	26.5	24.0	25.0	20.0	18.0	19.0
8	24.5	22.0	23.5	28.0	25.0	26.0	26.0	25.0	25.5	20.5	19.5	20.0
9	28.0	23.5	25.5	29.0	25.5	27.0	26.0	24.5	25.0	21.0	19.5	20.5
10	29.5	26.0	28.0	28.5	26.5	28.0	25.5	24.0	24.5	22.0	20.5	21.5
11	28.5	26.0	27.0	26.5	25.0	25.5	26.5	24.0	25.0	22.0	20.0	21.0
12	25.5	24.0	25.0	26.0	23.5	25.0	26.5	24.5	25.5	24.5	21.5	23.0
13	26.0	23.0	24.5	27.0	24.0	25.5	28.5	25.0	26.0	25.5	23.0	24.0
14	25.5	23.5	24.5	29.0	25.5	27.0	29.0	26.0	27.0	24.5	23.0	24.0
15	25.0	23.0	24.0	29.5	27.0	28.5	29.0	25.5	27.0	23.5	21.0	22.0
16	23.5	23.0	23.0	28.0	26.0	27.0	28.5	26.0	26.5	23.0	20.5	21.5
17	24.5	21.5	23.5	28.5	25.0	26.5	28.0	26.0	27.0	23.5	20.5	21.5
18	24.5	22.0	23.5	29.0	26.0	27.0	28.5	25.0	26.5	---	---	---
19	24.5	22.0	23.5	28.5	26.0	28.0	29.0	26.0	27.0	---	---	---
20	25.0	23.0	24.0	26.5	24.5	26.0	29.5	26.0	28.0	---	---	---
21	25.0	23.5	24.5	26.0	23.5	25.0	29.0	26.5	28.0	---	---	---
22	26.0	23.5	24.5	27.0	24.0	25.5	28.0	26.0	26.0	---	---	---
23	25.5	22.0	23.5	26.0	23.5	24.5	29.5	25.5	27.0	---	---	---
24	23.0	20.5	21.5	23.5	22.0	23.0	29.0	26.0	28.0	---	---	---
25	22.0	21.0	21.5	25.0	22.0	23.5	28.5	25.5	26.5	---	---	---
26	23.5	20.5	21.5	24.5	23.5	23.5	28.0	26.0	26.5	---	---	---
27	23.5	21.5	22.0	27.0	23.5	25.0	29.0	25.5	27.0	---	---	---
28	23.0	21.0	21.5	28.5	25.5	26.5	28.5	26.0	27.0	---	---	---
29	23.0	20.5	21.5	28.0	25.5	26.0	28.5	26.0	27.0	---	---	---
30	24.0	21.0	23.0	28.0	25.0	26.0	28.0	25.5	26.5	---	---	---
31	---	---	---	27.0	25.0	26.0	26.5	24.5	25.5			
MONTH	29.5	19.5	23.5	29.5	22.0	25.5	29.5	23.5	26.5	---	---	---

01576500 CONESTOGA RIVER AT LANCASTER, PA.
(Formerly published as Conestoga Creek at Lancaster, Pa.)

LOCATION.--Lat 40°03'00", long 76°16'39", Lancaster County, at raw water intake, Lancaster, 500 ft (152 m) upstream from gaging station at Penn Central Railroad Bridge, and 0.8 mi (1.3 km) east of Lancaster. Sediment samples are collected from State Highway 340 bridge at Bridgeport, 1 mi (1.6 km) downstream from gaging station.

DRAINAGE AREA.--324 mi^2 (839 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, October 1958 to September 1972, April to September 1974.
Water temperatures: October 1947 to September 1950, October 1958 to September 1970, April to September 1974.
Sediment records.--October 1961 to September 1964 (partial-record station), October 1971 to September 1972 (partial-record station), April to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 592 micromhos Aug. 15; minimum daily, 212 micromhos May 13.
Water temperatures: Maximum daily, 26.0°C July 9, 10, 18; minimum daily, 5.0°C Apr. 1.

Period of record:
Specific conductance (1963-70, 1973-74): Maximum daily, 592 micromhos Aug. 15, 1974; minimum daily, 164 micromhos Feb. 8, 1965.
Water temperatures: Maximum daily, 28.5°C June 30 to July 3, 1959; minimum daily, freezing point on many days in January and February 1948.

REMARKS.--Sediment data for this station on page 443. Unpublished records of daily specific conductance and water temperatures available at Harrisburg office.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
APR.								
15...	1030	2550	3.6	3.6	.21	3.2	3.4	7.0
MAY								
22...	1110	317	6.4	--	.46	.93	1.4	--
JUNE								
12...	1100	190	7.0	--	.26	1.1	1.4	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)
APR.							
15...	1.3	--	250	7.9	13.0	9.3	--
MAY							
22...	.47	.26	475	6.6	20.0	8.6	--
JUNE							
12...	.45	.26	440	7.0	22.0	7.6	5.4

01576500 CONESTOGA RIVER AT LANCASTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974 (ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	317	406	415	402	458	---
2	---	---	---	---	---	---	364	396	377	433	489	397
3	---	---	---	---	---	---	336	408	392	432	506	368
4	---	---	---	---	---	---	274	381	385	---	511	356
5	---	---	---	---	---	---	297	414	404	447	---	346
6	---	---	---	---	---	---	347	433	429	451	288	383
7	---	---	---	---	---	---	358	417	419	445	358	---
8	---	---	---	---	---	---	354	442	405	451	450	357
9	---	---	---	---	---	---	289	423	440	455	465	452
10	---	---	---	---	---	---	283	420	445	464	519	445
11	---	---	---	---	---	---	332	---	436	494	524	445
12	---	---	---	---	---	---	346	380	465	510	498	455
13	---	---	---	---	---	---	312	212	469	495	525	441
14	---	---	---	---	---	---	261	301	464	---	507	441
15	---	---	---	---	---	---	229	326	447	480	592	---
16	---	---	---	---	---	---	236	374	445	498	516	442
17	---	---	---	---	---	---	355	362	436	489	470	428
18	---	---	---	---	---	---	383	379	419	521	419	469
19	---	---	---	---	---	---	357	362	418	490	494	---
20	---	---	---	---	---	---	383	388	435	468	404	479
21	---	---	---	---	---	---	395	350	456	503	438	---
22	---	---	---	---	---	---	371	385	---	507	425	465
23	---	---	---	---	---	---	370	423	439	509	240	447
24	---	---	---	---	---	---	357	370	437	527	467	477
25	---	---	---	---	---	---	382	375	406	512	---	483
26	---	---	---	---	---	---	389	405	---	453	442	466
27	---	---	---	---	---	---	394	379	379	516	450	505
28	---	---	---	---	---	---	404	417	403	490	388	479
29	---	---	---	---	---	---	410	389	428	456	---	397
30	---	---	---	---	---	---	393	412	---	439	373	392
31	---	---	---	---	---	---	---	398	---	443	388	---
MONTH	---	---	---	---	---	---	343	384	426	475	450	433

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974 (ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	5.0	19.0	17.5	20.0	23.5	---
2	---	---	---	---	---	---	7.5	16.5	16.0	23.5	24.0	22.0
3	---	---	---	---	---	---	9.0	14.0	16.0	22.5	24.0	23.5
4	---	---	---	---	---	---	14.0	14.0	20.0	---	24.0	20.0
5	---	---	---	---	---	---	14.0	14.0	19.0	25.0	---	20.0
6	---	---	---	---	---	---	11.0	11.0	20.0	24.0	21.5	21.0
7	---	---	---	---	---	---	10.0	13.0	19.0	25.0	21.5	---
8	---	---	---	---	---	---	10.5	15.0	20.0	24.5	21.5	22.0
9	---	---	---	---	---	---	9.0	14.5	21.0	26.0	23.5	22.0
10	---	---	---	---	---	---	7.0	15.0	22.0	26.0	23.0	22.0
11	---	---	---	---	---	---	9.0	---	23.0	25.5	23.0	23.0
12	---	---	---	---	---	---	15.0	14.0	22.0	24.5	23.0	23.0
13	---	---	---	---	---	---	13.0	14.0	21.0	22.5	22.0	22.0
14	---	---	---	---	---	---	13.0	15.0	20.0	---	22.5	21.0
15	---	---	---	---	---	---	13.5	15.5	20.0	22.5	25.5	---
16	---	---	---	---	---	---	11.0	18.0	20.0	24.5	25.5	20.0
17	---	---	---	---	---	---	10.0	19.0	20.0	24.0	23.5	20.0
18	---	---	---	---	---	---	10.0	19.0	20.0	26.0	22.0	21.5
19	---	---	---	---	---	---	11.0	19.0	20.0	24.0	23.5	---
20	---	---	---	---	---	---	13.0	18.0	22.0	24.0	22.5	22.0
21	---	---	---	---	---	---	14.5	16.5	---	---	23.0	---
22	---	---	---	---	---	---	16.0	20.0	---	---	23.0	20.0
23	---	---	---	---	---	---	15.0	19.5	21.0	22.0	22.0	20.0
24	---	---	---	---	---	---	13.0	19.0	18.0	20.5	22.5	---
25	---	---	---	---	---	---	10.5	18.0	18.0	22.0	---	18.0
26	---	---	---	---	---	---	11.0	18.0	---	21.5	22.0	20.0
27	---	---	---	---	---	---	14.0	---	18.0	---	24.0	---
28	---	---	---	---	---	---	17.5	15.5	19.0	---	25.5	---
29	---	---	---	---	---	---	17.0	16.5	18.5	24.0	---	---
30	---	---	---	---	---	---	18.0	17.5	---	21.5	25.5	---
31	---	---	---	---	---	---	---	17.5	---	23.0	22.0	---
MONTH	---	---	---	---	---	---	12.0	16.5	19.5	23.5	23.0	---

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
01551500 - WEST BR. SUSQUEHANNA RIVER AT WILLIAMSPORT, PA. (LAT 41 14 17 LONG 076 59 56)										
APR., 1974 23...	0910	10700	--	.60	.60	.05	.13	.18	.78	.02
MAY 30...	0900	5170	--	.20	--	.12	.19	.31	--	.01
JUNE 26...	1000	3780	--	.36	--	.11	.16	.27	--	.02
01562010 - SHOUP RUN AT SAXTON PA. (LAT 40 13 31 LONG 078 14 23)										
NOV., 1973 13...	1100	37	0	.10	--	.05	.09	.14	--	.00
JAN., 1974 17...	1130	45	0	.43	--	.07	.19	.26	--	.04
MAR. 19...	1200	37	0	.20	--	.08	.10	.18	--	.01
01562200 - SHY BEAVER CREEK NR ENTRIKEN, PA. (LAT 40 18 02 LONG 078 12 49)										
NOV., 1973 13...	1545	6.4	115	.40	--	.08	.19	.27	--	.01
JAN., 1974 17...	1615	50	31	.77	--	.09	.36	.45	--	.03
MAR. 19...	1630	12	67	.40	--	.10	.22	.32	--	.02
01562250 - TATMAN RUN NR ENTRIKEN, PA. (LAT 40 18 03 LONG 078 09 47)										
NOV., 1973 13...	1320	5.0	37	.40	--	.09	.15	.24	--	.01
JAN., 1974 17...	1315	24	13	.52	--	.09	.21	.30	--	.02
MAR. 19...	1315	8.0	24	.30	--	.09	.18	.27	--	.02
01562350 - COFFEE RUN NR ENTRIKEN, PA. (LAT 40 19 49 LONG 078 11 29)										
NOV., 1973 13...	1630	2.5	133	1.2	--	.08	.31	.39	--	.04
JAN., 1974 17...	1530	24	52	.95	--	.09	.36	.45	--	.05
MAR. 19...	1530	6.0	80	.80	--	.12	.34	.46	--	.06
01562500 - GREAT TROUGH CREEK NEAR MARKLESBURG, PA. (LAT 40 21 00 LONG 078 07 50)										
NOV., 1973 13...	1300	90	10	.30	--	.09	.10	.19	--	.03
JAN., 1974 17...	1330	225	8	.63	--	.10	.33	.43	--	.06
MAR. 19...	1400	40	10	.20	--	.09	.17	.26	--	.03
01563500 - JUNIATA RIVER AT MAPLETON DEPOT, PA. (LAT 40 23 42 LONG 077 56 24)										
APR., 1974 17...	1410	2090	--	1.1	1.1	.02	.52	.54	1.6	.06
MAY 23...	1115	1260	--	.86	--	.19	.38	.57	--	.13
JUNE 11...	1200	780	--	1.3	--	.10	.38	.48	--	.90
01569700 - CONODOGUINET CR AT GREIDER BRG NR W HILL, PA. (LAT 40 12 52 LONG 077 18 48)										
APR., 1974 17...	1145	1020	--	1.7	1.7	.03	.59	.62	2.3	.07
MAY 17...	1030	583	--	1.4	--	.15	.30	.45	--	.05
JUNE 20...	1200	243	--	2.1	--	.06	.33	.39	--	.09

SUSQUEHANNA RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
01551500 - WEST BR. SUSQUEHANNA RIVER AT WILLIAMSPORT, PA. (LAT 41 14 17 LONG 076 59 56)									
APR., 1974 23...	--	155	6.5	12.0	10.2	1.0	--	--	--
MAY 30...	.00	190	6.6	17.0	9.8	.6	--	--	--
JUNE 26...	.00	220	6.8	20.0	8.6	.6	--	--	--
01562010 - SHOUP RUN AT SAXTON PA. (LAT 40 13 31 LONG 078 14 23)									
NOV., 1973 13...	.00	450	3.4	9.0	11.2	--	E2	36	3.5
JAN., 1974 17...	.00	190	4.1	6.0	12.5	--	34	150	.5
MAR. 19...	.01	270	3.9	8.5	11.6	--	<1	E10	--
01562200 - SHY BEAVER CREEK NR ENTRIKEN, PA. (LAT 40 18 02 LONG 078 12 49)									
NOV., 1973 13...	.00	310	7.4	9.0	12.0	--	29	44	1.5
JAN., 1974 17...	.01	155	5.0	5.0	11.8	--	220	240	2.0
MAR. 19...	.01	185	6.4	9.5	11.4	--	E10	18	--
01562250 - TATMAN RUN NR ENTRIKEN, PA. (LAT 40 18 03 LONG 078 09 47)									
NOV., 1973 13...	.01	120	6.5	6.5	10.3	--	260	69	4.0
JAN., 1974 17...	.02	85	6.1	5.5	12.4	--	120	100	1.0
MAR. 19...	.01	85	7.1	6.0	11.0	--	95	47	--
01562350 - COFFEE RUN NR ENTRIKEN, PA. (LAT 40 19 49 LONG 078 11 29)									
NOV., 1973 13...	.02	320	8.3	10.0	11.6	--	87	140	1.5
JAN., 1974 17...	.02	170	6.1	5.0	12.1	--	E1500	820	2.0
MAR. 19...	.02	200	6.5	10.5	10.6	--	140	200	--
01562500 - GREAT TROUGH CREEK NEAR MARKLESBURG, PA. (LAT 40 21 00 LONG 078 07 50)									
NOV., 1973 13...	.01	88	6.4	6.5	12.2	--	E10	E16	3.0
JAN., 1974 17...	.02	78	5.4	4.0	12.8	--	450	1000	2.0
MAR. 19...	.01	70	7.3	5.0	12.1	--	13	16	--
01563500 - JUNIATA RIVER AT MAPLETON DEPOT, PA. (LAT 40 23 42 LONG 077 56 24)									
APR., 1974 17...	--	220	8.5	12.0	14.2	1.6	--	--	--
MAY 23...	.09	240	6.9	20.0	8.4	1.2	--	--	--
JUNE 11...	.11	270	7.6	22.0	8.8	1.4	--	--	--
01569700 - CONODOGUINET CR AT GREIDER BRG NR W HILL, PA. (LAT 40 12 52 LONG 077 18 48)									
APR., 1974 17...	--	215	7.5	11.5	11.3	--	--	--	--
MAY 17...	.03	185	7.1	21.5	9.0	--	--	--	--
JUNE 20...	.05	250	7.6	21.0	9.4	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
01570000 - CONODOGUINET CREEK NR HOGESTOWN, PA. (LAT 40 15 08 LONG 077 01 17)										
APR., 1974										
15...	1415	2210	--	1.8	1.8	.06	.66	.72	2.5	.19
MAY										
17...	1410	632	--	1.9	--	.16	.38	.54	--	.14
JUNE										
20...	1430	347	--	2.5	--	.07	.48	.55	--	.21

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
01571110 - YELLOW BREECHES CR. NR. WALNUT BOTTOM, PA. (LAT 40 05 47 LONG 077 23 34)											
SEP., 1974											
26...	1530	.4	92	1	77	13	3.0	2.2	--	.00	.30
01571185 - MOUNTAIN CREEK AT PINE GROVE FURNACE, PA. (LAT 40 01 51 LONG 077 18 18)											
SEP., 1974											
26...	1130	4.6	12	0	10	.6	1.5	.00	--	.02	.11
01571190 - MOUNTAIN CREEK NEAR MOUNT HOLLY SPRINGS, PA. (LAT 40 05 36 LONG 077 11 14)											
SEP., 1974											
26...	0920	9.5	20	0	16	2.2	1.5	.05	--	.05	.17
01573940 - BEAVER CR. AT ROSSVILLE, PA. (LAT 40 04 39 LONG 076 54 56)											
SEP., 1974											
28...	1200	.9	74	2	64	18	5.5	.14	--	.03	.24
01576000 - SUSQUEHANNA RIVER AT MARIETTA, PA. (LAT 40 03 16 LONG 076 31 52)											
APR., 1974											
15...	1200	106	--	--	--	--	--	.70	.70	.07	.32
MAY											
22...	1315	41500	--	--	--	--	--	.48	--	.10	.50
JUNE											
12...	0900	13400	--	--	--	--	--	.34	--	.12	.71

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
01570000 - CONODOGUINET CREEK NR HOGESTOWN, PA. (LAT 40 15 08 LONG 077 01 17)									
APR., 1974 15...	--	240	7.4	13.0	9.2	--	--	--	--
MAY 17...	.11	260	7.7	23.0	10.0	--	--	--	--
JUNE 20...	.16	300	8.0	22.5	9.8	--	--	--	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)
01571110 - YELLOW BREECHES CR. NR. WALNUT BOTTOM, PA. (LAT 40 05 47 LONG 077 23 34)											
SEP., 1974 26...	.30	--	.01	.01	.0	.0	179	--	15.0	--	--
01571185 - MOUNTAIN CREEK AT PINE GROVE FURNACE, PA. (LAT 40 01 51 LONG 077 18 18)											
SEP., 1974 26...	.13	--	.02	.02	.0	1.0	26	--	15.0	--	--
01571190 - MOUNTAIN CREEK NEAR MOUNT HOLLY SPRINGS, PA. (LAT 40 05 36 LONG 077 11 14)											
SEP., 1974 26...	.22	--	.02	.02	.0	1.0	46	--	16.0	--	--
01573940 - BEAVER CR. AT ROSSVILLE, PA. (LAT 40 04 39 LONG 076 54 56)											
SEP., 1974 20...	.27	--	.03	.02	.0	.0	179	--	17.0	--	--
01576000 - SUSQUEHANNA RIVER AT MARIETTA, PA. (LAT 40 03 16 LONG 076 31 52)											
APR., 1974 15...	.39	1.1	.09	--	--	--	170	7.1	11.0	10.6	1.6
MAY 22...	.60	--	.09	.02	--	--	195	7.3	21.0	10.0	2.4
JUNE 12...	.83	--	.10	.02	--	--	280	7.6	25.0	8.0	4.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
01578340 - OCTORARO CR NR ATGLEN, PA. (LAT 39 56 52 LONG 075 59 29)											
OCT., 1973 09...	1040	15	270	--	20	--	17	8.3	8.0	3.1	41
01578343 - VALLEY CREEK NR ATGLEN, PA. (LAT 39 56 17 LONG 075 59 06)											
OCT., 1973 09...	1125	10	--	90	--	10	20	7.4	8.2	2.8	56
01578345 - OCTORARO CR NR ATGLEN, PA. (LAT 39 54 44 LONG 075 59 44)											
OCT., 1973 09...	1200	10	120	--	10	--	19	7.2	10	3.0	52

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
01578340 - OCTORARO CR NR ATGLEN, PA. (LAT 39 56 52 LONG 075 59 29)											
OCT., 1973 09...	0	34	24	14	.3	6.5	.00	6.5	110	77	43
01578343 - VALLEY CREEK NR ATGLEN, PA. (LAT 39 56 17 LONG 075 59 06)											
OCT., 1973 09...	0	46	18	14	.3	5.2	.07	5.3	108	80	34
01578345 - OCTORARO CR NR ATGLEN, PA. (LAT 39 54 44 LONG 075 59 44)											
OCT., 1973 09...	0	43	21	14	.3	4.7	.00	4.7	110	77	34

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01578340 - OCTORARO CR NR ATGLEN, PA. (LAT 39 56 52 LONG 075 59 29)											
OCT., 1973 09...	221	7.2	4.1	<1	0	0	0	0	0	0	10
01578343 - VALLEY CREEK NR ATGLEN, PA. (LAT 39 56 17 LONG 075 59 06)											
OCT., 1973 09...	222	7.1	7.1	1	0	0	3	0	0	0	20
01578345 - OCTORARO CR NR ATGLEN, PA. (LAT 39 54 44 LONG 075 59 44)											
OCT., 1973 09...	219	7.3	4.2	0	0	0	0	10	1	0	20

LAKES IN SUSQUEHANNA RIVER BASIN

412008076175700 LAKE JEAN.--Lat 41°20'08", long 76°17'57", Luzerne and Sullivan Counties, 25 mi (40.0 km) north of Berwick at point 300 ft (91.4 m) upstream from dam on Branch Kitchen Creek. Drainage area, 3 mi^2 (7.8 km^2). Surface area, 245 acres (992,000 m^2). Capacity at normal pool elevation of 2,222 ft (677.3 m), 1,399 acre-feet (1.72 hm^3). Mean flow-through-time, 123 days at 5.7 ft^3/s (0.16 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

405713078314000 CURWENSVILLE LAKE.--Lat 40°57'13", long 78°31'40", Clearfield County, 8 mi (12.9 km) southwest of Clearfield at point 500 ft (152 m) upstream from dam on West Branch Susquehanna River. Drainage area, 365 mi^2 (945.4 km^2). Surface area, 540 acres (2.19 km^2). Capacity at normal pool elevation of 1,155 ft (352 m), 5,000 acre-feet (6.17 hm^3). Mean flow-through-time, 4.1 days at 602 ft^3/s (17.1 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation and flood control.

402937078165300 CANOE LAKE.--Lat 40°29'37", long 78°16'53", Blair County, 6 mi (9.7 km) northeast of Hollidaysburg at point 500 ft (152 m) upstream from dam on Canoe Creek. Drainage area, 16.4 mi^2 (42.5 km^2). Surface area, 155 acres (627,000 m^2). Capacity at normal pool elevation of 905 ft (276 m), 1,490 acre-feet (1.8 hm^3). Mean flow-through-time, 35 days at 21.7 ft^3/s (0.61 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

400528076522000 CONEWAGO LAKE.--Lat 40°05'28", long 76°52'20", York County, 17 mi (27.4 km) south of Harrisburg at point 200 ft (61 m) upstream from dam on Beaver Creek. Drainage area, 17.5 mi^2 (45.3 km^2). Surface area, 342 acres (1.38 km^2). Capacity at normal pool elevation of 470 ft (143 m), 2,800 acre-feet (3.45 hm^3). Mean flow-through-time, 71 days at 19.9 ft^3/s (0.56 m^3/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation and water supply.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

SUSQUEHANNA RIVER BASIN

412008076175700 LAKE JEAN (LAT 41 20 08 LONG 076 17 57)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG. 06...	1300	.1	240	70	1.0	.6	3.5	.6	2	2	2.5

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
AUG. 06...	6.4	.1	.33	.01	.13	.32	.33	.02	.01	22	16

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)
AUG. 06...	5	3	32	6.7	20.5	2	69	9.5	.6	2.3	.0

DATE	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)
AUG. 06...	0	20	4.0	.0	.0	.0	.0	.0	.0	28	0

DATE	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG. 06...	0	0	0	6	0	1	0	1	5	20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

SUSQUEHANNA RIVER BASIN

405713078314000 CURWENSVILLE LAKE (LAT 40 57 13 LONG 078 31 40)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 17...	1130	4.7	90	190	28	8.2	7.5	1.7	16	13	100

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
JULY 17...	6.7	.2	.59	.01	.60	.12	.08	.20	.80	.01	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 17...	213	165	100	91	310	6.7	25.0	0	144	5.1	6.3

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
JULY 17...	.0	12	3.1	1.9	2.3	.6	.0	.0	.0	.0	45

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JULY 17...	0	0	0	0	19	<10	0	10	6	7	30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

SUSQUEHANNA RIVER BASIN

402937078165300 CANOE LAKE (LAT 40 29 37 LONG 078 16 53)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY										
18...	1030	4.3	60	0	25	5.2	1.1	1.3	70	57

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JULY										
18...	40	6.2	.4	.00	.01	.01	.11	.20	.31	.32

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	COLOR (PLATINUM-COBALT UNITS)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)
JULY										
18...	.02	.01	200	164	84	26	2	.0	8	1.2

DATE	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)
JULY										
18...	.9	.0	.4	.0	.0	.0	.0	.3	0	0

DATE	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY									
18...	0	0	0	<10	0	0	0	0	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

SUSQUEHANNA RIVER BASIN

400528076522000 CONEWAGO LAKE (LAT 40 05 28 LONG 076 52 20)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY 09...	1045	6.4	30	20	15	5.7	4.0	.9	55	0	45

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 09...	19	4.7	.1	.00	.00	.00	.11	.20	.31	.31	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 09...	.01	96	83	61	16	160	8.0	27.5	2	.9	7.8

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
JULY 09...	.0	8	2.6	2.0	.0	.2	.0	.0	.0	.0	6

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY 09...	0	0	0	0	0	0	0	0	2	7	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
01613450 - LICKING CREEK NEAR HUSTONTOWN, PA. (LAT 40 00 54 LONG 078 02 32)									
SEP., 1974									
27...	1230	1.2	142	5	125	11	3.5	.34	.04
01614140 - BACK CREEK NEAR CHAMBERSBURG, PA. (LAT 39 53 36 LONG 077 44 30)									
SEP., 1974									
27...	0930	7.5	146	4	126	18	7.0	.81	.09
01638900 - WHITE RUN NEAR GETTYSBURG, PA. (LAT 39 47 45 LONG 077 11 50)									
SEP., 1974									
28...	0950	.10	135	4	117	16	7.0	.00	.03

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
01613450 - LICKING CREEK NEAR HUSTONTOWN, PA. (LAT 40 00 54 LONG 078 02 32)								
SEP., 1974								
27...	.23	.27	.01	.00	.0	.0	226	17.0
01614140 - BACK CREEK NEAR CHAMBERSBURG, PA. (LAT 39 53 36 LONG 077 44 30)								
SEP., 1974								
27...	.44	.53	.07	.05	.0	.0	283	17.0
01638900 - WHITE RUN NEAR GETTYSBURG, PA. (LAT 39 47 45 LONG 077 11 50)								
SEP., 1974								
28...	.29	.32	.03	.03	.0	.0	263	18.0

03030106 TOBY CREEK NEAR CLARION, PA.

LOCATION.--Lat 41°14'05", long 79°23'00", Clarion County, at bridge 0.1 mi (0.2 km) south of Rapp Run and 1.4 mi (2.2 km) north of Clarion.

DRAINAGE AREA.--35.0 mi^2 (90.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to June 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAY											
28...	1030	11	--	36000	15000	14000	47	47	6.5	1.6	0
JUNE											
25...	0930	--	20000	60000	18000	18000	--	--	--	--	--
27...	1045	--	16000	40000	20000	19000	--	--	--	--	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
MAY										
28...	0	500	3.5	.6	716	671	310	310	3.8	189
JUNE										
25...	--	850	--	--	--	--	--	--	--	--
27...	--	660	--	--	--	--	--	--	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY										
28...	1000	--	11.9	--	--	--	--	--	--	--
JUNE										
25...	1500	3.6	10.4	130	10	410	100	600	490	980
27...	1350	3.1	10.3	110	0	300	70	440	--	710

03032500 REDBANK CREEK AT ST. CHARLES, PA.

LOCATION.--Lat 40°59'40", long 79°23'40", Armstrong County, at highway bridge on Legislative Route 03117 at St. Charles, 400 ft (122 m) upstream from gaging station, 0.3 mi (0.5 km) downstream from Leatherwood Creek, and 3 mi (4.8 km) west of New Bethlehem.

DRAINAGE AREA.--528 mi^2 (1,370 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970, October 1971 to September 1973 (partial-record station), April to June 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)
APR.									
02...	1400	4110	900	2890	--	--	14	5.8	8
11...	1600	1360	--	200	130	400	--	--	2
JUNE									
24...	1250	330	450	220	--	--	27	11	12

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	HARDNESS (CA,MG) (MG/L)
APR.									
02...	7	57	7.0	.37	.01	.15	.08	130	60
11...	2	64	17	--	--	--	--	--	75
JUNE									
24...	10	99	12	.20	.00	.16	.03	218	110

DATE	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
APR.								
02...	53	--	--	180	6.2	8.0	9.0	8.1
11...	73	.0	.0	195	6.6	6.8	10.6	.8
JUNE								
24...	100	--	--	320	6.9	21.0	9.0	2.4

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA.

LOCATION.--Lat 40°33'52", long 79°46'22", Allegheny County, at New Kensington highway bridge, 5.1 mi (8.2 km) downstream from lock and dam 4 at Natrona, 5.3 mi (8.5 km) downstream from gaging station at Natrona, and 19.0 mi (30.6 km) from mouth.

DRAINAGE AREA.--11,500 mi^2 (29,800 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to December 1973 (discontinued).

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Records of discharge are given for 03049500 Allegheny River at Natrona, Pa.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 25...	0915	4820	410	--	890	--	23	19	227	250	2
NOV. 08...	0845	15600	2100	--	660	--	19	16	176	170	12
DEC. 27...	1400	22000	--	600	--	700	18	15	148	160	26

DATE	SUS-PENDED SOLIDS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 25...	3	.1	5.0	350	6.8	13.0	2	9.8	.8	5.8
NOV. 08...	10	.1	5.0	240	6.4	8.0	--	11.2	.6	12
DEC. 27...	12	.1	5.0	230	6.8	1.5	4	13.0	.2	4.6

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GRCSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT. 25...	2300	120	3.5	<.4	6.3	<.4	5.1	<.4	.04	.08
NOV. 08...	170	68	3.1	<.4	3.9	.6	3.1	.5	.03	.01
DEC. 27...	540	75	<1.7	1.2	2.7	1.4	2.1	1.2	.08	.01

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
DEC. 27...	1400	0	22	6.9	62	15	.90	.18	.27	.45	.04

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 27...	.02	83	68	3.0	.03	12	0	0	0	0	50

03063000 MONONGAHELA RIVER AT LOCK AND DAM 8, AT POINT MARION, PA.

LOCATION.--Lat 39°43'57", long 79°54'42", Greene County, at dam, lock and dam 8, at Point Marion, 1.5 mi(2.4 km) upstream from Cheat River, and 90.8 mi (146 km) from mouth.

DRAINAGE AREA.--2,720 mi^2 (7,045 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1955 to June 1963, January 1966 to September 1967, October 1968 to December 1973 (discontinued).
Water temperatures: October 1956 to June 1963, January 1966 to September 1967, October 1968 to September 1970.

REMARKS.--Operated as part of the USGS-EPA surveillance network. No discharge records available.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
OCT. 24...	1200	650	430	5	4	117	3	.0	2.0
NOV. 07...	1130	950	460	18	15	188	4	.0	1.0
DEC. 19...	1215	--	--	6	5	109	544	.1	5.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 24...	310	6.2	16.0	5	9.0	1.0	5.0	420	3
NOV. 07...	280	6.7	10.0	--	10.2	.6	5.7	1200	530
DEC. 19...	185	6.7	2.5	50	13.9	.4	1.9	360	35

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
DEC. 19...	1215	100	580	390	17	4.9	55	5.5	.13	.13	.25	.38

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 19...	8.5	8.4	63	58	1.5	.02	14	0	<10	0	0	60

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°24'19", long 79°52'53", Allegheny County, at Rankin Bridge, 1.7 mi (2.7 km) downstream from gaging station.

DRAINAGE AREA.--7,340 mi^2 (19,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1974.
Biological analyses: January 1973 to September 1974.
Water temperatures: January 1973 to September 1974.
Sediment records: January 1973 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum daily, 767 micromhos Aug. 29; minimum daily, 158 micromhos June 28.
Water temperatures: Maximum daily, 29.0°C Aug. 26-28; minimum daily, 4.5°C on several days during December, January, and February.

Period of record:
Specific conductance (1972-74): Maximum daily, 937 micromhos Aug. 2, 1973; minimum daily, 158 micromhos June 28, 1974.
Water temperatures: Maximum daily, 30.0°C on several days during September 1973; minimum daily, 4.0°C on several days during February 1973.

REMARKS.--Sediment data for this station on page 455.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)
OCT. 23...	1030	2900	--	--	--	--	--	--	--	--
NOV. 06...	0945	7700	4.4	23	6.0	15	2.5	9	0	7
DEC. 18...	1000	14800	4.8	28	7.5	12	2.0	22	0	18
JAN. 22...	1000	27700	3.7	22	6.4	11	1.4	15	0	12
FEB. 13...	0930	11000	6.0	30	8.3	15	1.6	9	0	7
MAR. 25...	0930	12000	5.3	30	7.9	12	1.6	20	0	19
APR. 15...	1000	20200	5.1	17	6.6	8.6	1.6	25	--	21
MAY 17...	1000	13500	5.5	27	6.9	13	1.8	24	0	20
JUNE 24...	0900	97500	5.3	23	5.0	6.6	1.9	18	0	15
JULY 24...	0930	4030	4.4	40	11	30	3.4	31	0	25
AUG. 19...	0930	3120	4.5	59	14	48	5.0	21	0	17
SEP. 11...	1005	5800	5.4	50	12	31	3.2	25	0	21

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT. 23...	--	--	--	.63	--	--	.14	.37	.51
NOV. 06...	84	9.1	.3	.89	.00	.89	.11	.41	.68
DEC. 18...	92	8.5	.4	.82	.03	.86	.14	.33	.47
JAN. 22...	66	6.0	.2	1.4	--	--	.26	.31	.57
FEB. 13...	114	11	.2	.90	--	--	.71	.88	1.6
MAR. 25...	43	8.0	.1	.71	.04	.75	--	--	.36
APR. 15...	78	7.0	.1	--	--	.60	--	--	.30
MAY 17...	88	6.6	.1	--	--	.56	--	--	.31
JUNE 24...	64	4.6	.2	--	--	.57	--	--	1.4
JULY 24...	170	13	.3	--	--	.55	--	--	.60
AUG. 19...	240	23	.4	--	--	.70	--	--	1.1
SEP. 11...	210	11	.3	--	--	.54	--	--	.33

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.									
23...	--	.12	.06	--	--	--	--	425	6.8
NOV.									
06...	1.6	.12	.06	168	150	82	75	266	6.5
DEC.									
18...	1.3	.07	.03	199	167	101	83	289	6.9
JAN.									
22...	--	.10	--	167	124	81	131	250	6.0
FEB.									
13...	--	.07	.05	231	191	109	123	340	6.5
MAR.									
25...	1.1	.05	--	185	118	107	91	246	6.6
APR.									
15...	.90	.03	--	104	136	70	49	245	7.0
MAY									
17...	.87	.03	--	187	161	96	76	285	6.8
JUNE									
24...	2.0	.52	--	136	120	78	63	240	7.7
JULY									
24...	1.2	.08	--	329	287	150	120	461	7.2
AUG.									
19...	1.8	.08	--	473	404	210	190	350	7.4
SEP.									
11...	.87	.04	--	353	336	170	150	480	7.1

DATE	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	PHENOLS (UG/L)
OCT.									
23...	18.0	4	8.2	--	550	43000	3300	700	--
NOV.									
06...	12.5	3	10.0	4.0	72	15000	2000	480	0
DEC.									
18...	4.0	9	13.0	4.0	74	1400	600	360	7
JAN.									
22...	8.0	35	12.0	4.8	62	--	270	200	1
FEB.									
13...	5.0	16	11.4	4.6	60	--	1100	180	4
MAR.									
25...	6.0	8	12.2	5.0	65	--	170	35	0
APR.									
15...	11.5	10	11.0	4.0	520	--	300	200	1
MAY									
17...	20.0	9	9.0	6.1	360	--	300	110	--
JUNE									
24...	18.5	100	7.4	4.6	3100	--	7500	9000	--
JULY									
24...	26.0	8	6.8	3.1	3600	--	2900	380	--
AUG.									
19...	29.0	8	6.1	1.3	840000	--	1300	46	--
SEP.									
11...	23.5	7	7.4	3.2	5500	--	830	64	--

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
NOV.												
06...	0945	--	230	--	--	840	--	--	--	--	--	--
DEC.												
18...	1000	1800	120	570	--	460	3.5	1	--	<1	0	--
MAR.												
25...	0930	1100	130	360	--	320	.9	<1	--	1	0	--
JUNE												
24...	0900	30000	40	700	400	300	8.0	10	8	2	0	0
SEP.												
11...	1005	750	10	610	0	620	2.7	<1	<1	0	0	0

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	0	10	--	0	4	--	3	10	--	10	5
MAR.											
25...	6	<10	--	0	5	--	6	0	--	0	3
JUNE											
24...	0	60	60	0	22	22	0	40	40	0	39
SEP.											
11...	1	10	10	0	7	4	3	10	0	10	6

DATE	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	--	1	<.5	--	.5	--	--	--	120	--	50
MAR.											
25...	--	1	<.5	--	<.5	<1	--	--	90	--	40
JUNE											
24...	38	1	<.5	<.0	<.5	0	0	0	260	130	130
SEP.											
11...	6	0	<.5	.0	<.5	2	0	<2	30	0	40

DATE	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M
FEB.			
13-28	--	--	4.6
MAR.			
01-25	--	--	4.6
25-31	--	--	10
APR.			
01-26	--	--	10
JULY			
24-31	2.2	.6	35
AUG.			
01-19	2.2	.6	35

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CODOMINANTS OF PERIPHYTON

Date in: 5-14-73
Date out: 6-27-73

Periphyton taxa	Occurrence
CHLOROPHYTA	
.Chlorophyceae (green algae)	
....Stigeoclonium	X
CHRYSOPHYTA	
.Chrysophyceae (diatoms)	
....Synedra	X
CYANOPHYTA	
.Myxophyceae (blue-green algae)	
....Lyngbya	X

OCCURRENCE OF BENTHIC INVERTEBRATES

Date in: 5-14-73
Date out: 6-27-73
Total count: 3

Benthic invertebrate taxa	Percent of total
ARTHROPODA	
.Insecta	
..Diptera	
....Tendipedidae	100

OCCURRENCE OF PHYTOPLANKTON

Date of sample collection	1-22-73	2-13-73	3-13-73	4-17-73	5-22-73	6-22-73	7-23-73	8-13-73	9-25-73
Time	0930	1000	0830	0930	0930	0730	0930	1030	0930
Total count (cells/ml)	9	4300	20	50	100	69	1500	4300	2300
Phytoplankton taxa	Percent of total								
CHLOROPHYTA									
.Chlorophyceae (green algae)									
....Ankistrodesmus	--	--	--	25	--	--	--	--	--
....Chlamydomonas	--	--	50	--	--	--	--	--	--
....Chlorella	--	41	--	--	--	--	--	--	--
....Scenedesmus	--	--	--	--	--	--	--	19	--
CHRYSOPHYTA									
.Bacillariophyceae (diatoms)									
....Cyclotella	18	--	--	--	--	--	--	44	--
....Melosira	--	--	--	--	--	--	22	--	55
....Navicula	18	--	50	--	--	--	--	--	--
....Pinnularia	--	--	--	75	62	--	--	--	--
CYANOPHYTA									
.Myxophyceae (blue-green algae)									
....Oscillatoria	--	58	--	--	--	61	--	--	--

PHYLUM
.Class
..Order
...Family
....Genus

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CODOMINANTS OF PERIPHYTON

Date in:	8-15-73
Date out:	10- 1-73
Periphyton taxa	Occurrence
COELENTERATA	
.Hydrozoa	
....Cordylophora lacustris	X
CYANOPHYTA	
.Myxophyceae	
....Lyngbya	X
ROTIFERA	
.Monogononta	
....Floscularia	X

OCCURRENCE OF BENTHIC INVERTEBRATES

Date in:	8-15-73	11-24-73
Date out:	10- 1-73	2-13-74
Total count:	17	4
Benthic invertebrate taxa	Percent of total	
ANNELIDA		
.Hirudinea	82	--
ARTHROPODA		
.Crustacea		
..Isopoda	6	--
.Insecta		
..Diptera		
...Chironomidae	12	75
..Odonata		
...Zygoptera	25	25

OCCURRENCE OF PHYTOPLANKTON

Date of sample collection	10-23-73	11-6-73	12-18-73	1-22-74	2-13-74	3-25-74
Time	1030	0945	1000	1000	0930	0930
Total count (cells/ml)	550	72	74	62	60	65
Phytoplankton taxa	Percent of total					
CHLOROPHYTA						
.Chlorophyceae (green algae)						
....Ankistrodesmus	--	--	--	--	--	--
....Closteriopsis	--	--	--	--	--	--
....Scenedesmus	46	--	--	--	--	--
....Selenastrum	--	--	--	--	--	--
CHRYSOPHYTA						
.Bacillariophyceae (diatoms)						
....Cyclotella	--	--	46	28	--	--
....Navicula	--	--	--	--	17	43
....Nitschia	--	--	--	--	17	--
....Synedra	31	33	--	25	33	--
CYANOPHYTA						
.Myxophyceae (blue-green algae)						
....Anacystis	--	--	--	--	--	--
....Lyngbya	--	--	--	--	--	--

Date of sample collection	4-15-75	5-17-74	6-24-74	7-24-74	8-19-74	9-11-74
Time	1000	1000	0900	0930	0930	1000
Total count (cells/ml)	520	360	3100	3600	840,000	5500
CHLOROPHYTA						
.Chlorophyceae (green algae)						
....Ankistrodesmus	--	10	4	1	--	11
....Closteriopsis	--	--	2	--	--	--
....Scenedesmus	--	10	--	16	11	33
....Selenastrum	--	--	--	2	--	--
CHRYSOPHYTA						
.Bacillariophyceae (diatoms)						
....Cyclotella	3	19	--	45	9	20
....Navicula	14	17	35	10	8	--
....Nitschia	2	26	4	--	2	3
....Synedra	--	--	8	--	1	6
CYANOPHYTA						
.Myxophyceae (blue-green algae)						
....Anacystis	--	--	15	21	2	--
....Lyngbya	77	--	--	--	3	20

PHYLUM
.Class
..Order
...Family
....Genus

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651	433	216	190	297	291	325	343	334	201	488	659
2	528	386	235	183	298	288	322	347	333	328	473	606
3	543	391	214	179	303	288	319	346	335	186	477	607
4	549	401	211	189	297	286	346	388	336	269	458	599
5	513	462	212	205	347	284	344	396	185	276	494	634
6	472	---	210	207	355	284	342	378	174	272	492	494
7	482	274	228	177	349	241	359	378	168	195	493	492
8	474	284	229	221	387	243	330	360	238	219	495	474
9	554	291	232	212	380	296	274	373	176	222	490	499
10	509	286	225	223	385	253	215	416	177	262	532	504
11	513	282	230	227	352	251	222	418	244	324	521	388
12	451	433	228	228	323	248	212	422	229	332	582	391
13	477	437	239	228	335	237	278	356	243	336	615	402
14	452	436	271	205	331	234	252	375	286	336	592	435
15	439	409	272	204	324	241	236	385	298	300	608	432
16	415	291	271	205	332	259	244	397	292	390	592	432
17	424	288	239	214	333	261	289	283	320	384	618	452
18	433	311	---	223	270	254	252	269	332	356	643	456
19	427	286	---	228	266	262	254	268	310	436	592	456
20	409	287	---	231	297	285	253	265	294	446	646	335
21	411	283	260	254	331	279	260	318	292	414	641	333
22	426	256	261	---	333	279	309	280	346	490	641	362
23	---	253	263	263	336	266	284	304	343	494	641	335
24	492	261	218	241	274	265	294	269	193	---	725	332
25	477	259	213	215	270	262	302	278	180	277	758	356
26	477	292	223	244	275	281	330	337	159	436	750	346
27	477	290	219	258	298	278	331	293	162	327	732	334
28	454	287	171	256	264	276	324	291	158	456	760	366
29	464	266	196	258	---	272	322	298	169	447	767	371
30	438	225	201	287	---	326	344	338	198	445	665	412
31	433	---	220	295	---	---	---	342	---	436	710	---
MONTH	475	322	229	225	319	269	292	339	250	343	603	443

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	17.0	10.0	5.0	8.0	5.5	10.0	18.0	21.0	18.0	27.0	28.0
2	24.5	17.0	10.0	5.0	8.5	5.5	9.5	19.0	21.0	18.0	27.0	26.0
3	24.0	17.0	10.0	5.0	8.5	5.0	9.5	19.0	20.0	18.0	27.0	25.0
4	24.0	17.0	10.0	5.0	7.5	6.0	11.0	19.5	18.0	20.0	27.0	24.0
5	24.0	15.0	10.0	5.0	6.5	6.5	12.0	20.0	18.0	21.0	26.0	22.5
6	24.0	---	10.0	5.0	6.0	7.0	12.0	18.0	19.0	22.0	26.0	22.0
7	24.0	13.0	10.0	5.0	6.0	7.5	11.0	16.0	19.0	22.0	25.5	22.0
8	23.5	13.0	10.0	5.0	6.0	7.5	12.0	16.0	20.0	24.0	26.0	22.0
9	23.0	13.0	9.5	4.5	5.5	8.0	11.0	17.0	20.0	24.0	26.0	22.0
10	23.5	13.0	9.5	4.5	5.0	9.0	11.0	17.0	22.0	26.0	27.0	22.0
11	23.0	12.5	9.0	4.5	4.5	9.5	10.0	18.0	22.0	26.0	27.0	22.0
12	23.0	11.5	9.0	4.5	5.0	10.0	10.0	18.0	22.0	25.0	27.0	23.0
13	23.0	11.5	9.0	4.5	5.0	10.0	11.0	16.0	22.0	25.0	27.0	24.0
14	23.0	11.0	8.0	4.5	5.0	10.5	12.0	16.0	23.0	26.0	27.0	24.0
15	23.0	11.0	8.0	4.5	5.0	10.0	12.0	18.0	23.0	26.0	27.0	24.0
16	23.0	12.0	8.0	4.5	5.0	10.0	12.0	18.0	23.0	26.5	28.0	22.5
17	22.5	11.5	7.5	5.0	5.0	10.0	12.5	18.0	23.0	26.5	28.0	22.5
18	22.0	11.0	---	5.0	5.0	10.0	12.5	19.0	23.0	27.0	28.0	23.0
19	20.0	11.0	---	5.0	5.0	10.5	13.0	20.0	22.0	28.0	28.0	23.0
20	19.0	10.5	---	5.0	5.0	10.0	13.0	20.0	22.0	28.0	27.5	23.0
21	18.0	10.5	5.5	6.0	5.0	10.0	13.0	22.0	23.0	28.0	27.5	24.0
22	18.0	10.5	5.0	---	6.0	10.0	14.0	22.0	23.5	27.0	28.0	23.0
23	---	11.0	5.0	6.5	6.0	9.5	14.0	23.5	23.5	27.0	28.0	22.0
24	18.0	11.0	4.5	7.0	5.5	9.5	13.5	23.5	19.0	---	28.0	20.0
25	18.0	11.0	4.5	7.0	6.0	8.5	13.5	23.5	18.0	26.0	28.0	18.0
26	18.0	11.0	4.5	7.0	5.0	6.5	13.5	23.0	18.0	27.0	29.0	18.0
27	18.0	11.0	4.5	7.0	5.0	7.0	14.0	23.0	18.0	27.0	29.0	18.0
28	18.0	10.5	4.5	7.5	5.5	7.5	14.0	23.0	18.0	27.0	29.0	18.0
29	18.0	10.0	4.5	8.0	---	9.0	16.0	23.0	18.0	26.0	28.5	18.0
30	17.0	10.0	4.5	8.0	---	10.0	18.0	23.0	18.0	26.0	28.0	19.0
31	17.0	---	5.0	8.0	---	10.0	---	23.0	---	26.0	28.0	---
MONTH	21.5	12.0	7.5	5.5	6.0	8.5	12.5	20.0	20.5	25.0	27.5	22.0

03086000 OHIO RIVER AT SEWICKLEY, PA.

LOCATION.--Lat 40°31'50", long 80°11'20", Allegheny County, 200 ft (61 m) downstream from gage, at highway bridge at Sewickley, 0.5 mi (0.8 km) upstream from Narrows Run, 1.5 mi (2.4 km) upstream from Dashfields Dam, and 11.8 mi (19.0 km) downstream from confluence of Allegheny and Monongahela Rivers.

DRAINAGE AREA.--19,500 mi^2 (50,500 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: February 1956 to October 1956, October 1961 to December 1973 (discontinued).

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
OCT. 24...	0820	10600	490	550	24	20	278	--	.1	5.0
NOV. 07...	0830	28800	1900	620	20	16	179	16	.1	5.0
DEC. 19...	0830	34400	--	--	20	16	180	24	.1	5.0

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 24...	380	6.5	17.5	7	8.8	1.8	12	14000	600
NOV. 07...	250	6.6	10.5	--	11.6	.8	8.0	1600	440
DEC. 19...	300	6.6	3.0	5	14.0	1.6	8.0	3100	470

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC. 19...	0830	0	260	600	27	7.4	82	13	.90	.12	.28	.40

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC. 19...	.10	.06	98	81	1.5	.03	3	1	<10	0	1	50

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
03012580 - BROWNS RUN AT WARREN, PA. (LAT 41 49 21 LONG 079 06 33)											
SEP., 1974 26...	1000	13	--	--	--	25	0	21	11	9.0	1.1
03016100 - WEST HICKORY CREEK NR. WEST HICKORY, PA. (LAT 41 34 32 LONG 79 26 20)											
SEP., 1974 25...	1445	12	--	--	--	18	0	15	13	25	.00
03017800 - MINISTER CREEK NR TRUEMANS, PA. (LAT 41 37 17 LONG 79 09 12)											
SEP., 1974 24...	1040	11	--	--	--	5	0	4	9.2	1.0	.09
03021400 - W BR FRENCH CREEK NR HORNBY, PA. (LAT 42 06 08 LONG 079 49 20)											
SEP., 1974 26...	1230	9.7	--	--	--	110	0	90	20	8.0	.09
03022800 - CUSSEWAGO CREEK AT CROSSINGVILLE, PA. (LAT 41 49 52 LONG 80 14 28)											
SEP., 1974 26...	1430	1.2	--	--	--	67	0	55	22	24	.07
03026500 - SEVENMILE RUN NEAR RASSELAS, PA. (LAT 41 37 52 LONG 078 34 37)											
APR., 1974 08...	0930	28	150	100	0	4	--	3	5.8	7.6	--
03027500 - E. BR. CLARION R. AT E. BR. CLARION R. DAM, PA. (LAT 41 33 11 LONG 078 35 47)											
APR., 1974 09...	1600	540	200	0	100	2	--	2	25	4.2	--
03027690 - EAST BR CLARION RIVER AT JOHNSONBURG, PA. (LAT 41 29 38 LONG 078 40 22)											
APR., 1974 10...	1200	653	250	100	50	2	--	2	32	4.6	--
03027990 - WILSON RUN AT DAHOGA, PA. (LAT 41 35 56 LONG 078 43 35)											
APR., 1974 10...	1220	42	600	0	50	10	--	8	8.8	11	--
03028000 - WEST BRANCH CLARION RIVER AT WILCOX, PA. (LAT 41 34 31 LONG 078 41 33)											
APR., 1974 10...	1330	218	100	0	30	12	--	10	13	9.5	--
03028520 - POWERS RUN AT MOUTH, PA. (LAT 41 28 45 LONG 078 40 12)											
APR., 1974 08...	1200	46	200	100	0	6	--	5	11	7.6	--
03028530 - RILEY RUN NR JOHNSONBURG, PA. (LAT 41 28 08 LONG 078 42 00)											
APR., 1974 08...	1315	5.7	1200	0	1000	358	--	294	84	550	--
03028550 - LITTLE MILL CR NR JOHNSONBURG, PA. (LAT 41 30 04 LONG 078 43 44)											
MAY , 1974 21...	1200	15	210	0	60	2	--	2	--	--	--

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03012580 - BROWNS RUN AT WARREN, PA. (LAT 41 49 21 LONG 079 06 33)										
SEP., 1974 26...	.00	--	--	1.0	.0	95	7.0	8.0	--	4.0
03016100 - WEST HICKORY CREEK NR. WEST HICKORY, PA. (LAT 41 34 32 LONG 79 26 20)										
SEP., 1974 25...	.01	--	--	1.0	.0	140	6.2	9.5	--	18
03017800 - MINISTER CREEK NR TRUEMANS, PA. (LAT 41 37 17 LONG 79 09 12)										
SEP., 1974 24...	.13	--	--	2.0	.0	38	7.2	6.5	--	.5
03021400 - W BR FRENCH CREEK NR HORNBY, PA. (LAT 42 06 08 LONG 079 49 20)										
SEP., 1974 26...	.01	--	--	1.0	.0	218	7.6	9.0	--	4.4
03022800 - CUSSEWAGO CREEK AT CROSSINGVILLE, PA. (LAT 41 49 52 LONG 80 14 28)										
SEP., 1974 26...	.00	--	--	1.0	.0	217	7.5	17.0	--	3.4
03026500 - SEVENMILE RUN NEAR RASSELAS, PA. (LAT 41 37 52 LONG 078 34 37)										
APR., 1974 08...	--	10	7	.0	.0	40	7.3	3.9	13.0	.3
03027500 - E. BR. CLARION R. AT E. BR. CLARION R. DAM, PA. (LAT 41 33 11 LONG 078 35 47)										
APR., 1974 09...	--	32	30	.0	.0	70	7.1	3.1	14.1	.3
03027690 - EAST BR CLARION RIVER AT JOHNSONBURG, PA. (LAT 41 29 38 LONG 078 40 22)										
APR., 1974 10...	--	31	29	1.0	.0	85	5.8	7.0	14.0	--
03027990 - WILSON RUN AT DAHOGA, PA. (LAT 41 35 56 LONG 078 43 35)										
APR., 1974 10...	--	21	13	.0	.0	75	7.2	4.0	12.4	1.0
03028000 - WEST BRANCH CLARION RIVER AT WILCOX, PA. (LAT 41 34 31 LONG 078 41 33)										
APR., 1974 10...	--	22	12	.0	.0	75	7.3	5.5	13.2	1.0
03028520 - POWERS RUN AT MOUTH, PA. (LAT 41 28 45 LONG 078 40 12)										
APR., 1974 08...	--	14	9	.0	.0	55	7.2	3.8	--	.6
03028530 - RILEY RUN NR JOHNSONBURG, PA. (LAT 41 28 08 LONG 078 42 00)										
APR., 1974 08...	--	260	0	.0	.0	2400	7.8	5.8	1.9	--
03028550 - LITTLE MILL CR NR JOHNSONBURG, PA. (LAT 41 30 04 LONG 078 43 44)										
MAY , 1974 21...	--	12	10	5.0	.1	30	5.1	18.0	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
03028750 - LAUREL RUN NR SAINT MARYS, PA. (LAT 41 25 07 LONG 078 36 18)											
APR., 1974 08...	1400	24	400	0	100	2	--	2	25	8.0	--
03028800 - DAGUSCAHONDA CR AT DAGUSCAHONDA, PA. (LAT 41 25 09 LONG 078 38 32)											
APR., 1974 08...	1300	38	1900	1300	300	0	--	0	64	7.6	--
03028900 - ELK CREEK AT RIDGWAY, PA. (LAT 41 25 31 LONG 078 43 38)											
APR., 1974 08...	1530	59	1000	550	600	2	--	2	--	11	--
SEP. 26...	1615	52	--	--	--	14	0	11	48	20	.18
03029000 - CLARION RIVER AT RIDGWAY, PA. (LAT 41 25 15 LONG 078 44 10)											
APR., 1974 08...	1200	1120	500	0	40	12	--	10	17	16	--
03029120 - BIG MILL CR NR RIDGWAY, PA. (LAT 41 24 58 LONG 078 46 31)											
MAY , 1974 20...	1200	45	200	190	100	4	--	3	--	--	--
03029140 - BRANDYCAMP CR NR ELBON, PA. (LAT 41 17 10 LONG 078 41 22)											
APR., 1974 09...	1430	48	7900	4800	2000	0	--	0	160	7.2	--
03029144 - MEAD RUN AT BROCKPORT, PA. (LAT 41 15 38 LONG 078 43 33)											
APR., 1974 10...	1000	23	150	100	2800	10	--	8	116	3.0	--
03029150 - LITTLE TOBY CREEK AT BROCKWAY, PA. (LAT 41 15 09 LONG 078 47 48)											
APR., 1974 10...	1320	263	1700	1100	1700	2	--	2	130	10	--
03029170 - LITTLE TOBY CREEK AT PORTLAND MILLS, PA. (LAT 41 21 53 LONG 078 49 22)											
APR., 1974 11...	1430	415	300	0	1200	2	--	2	126	7.2	--
03029180 - BEAR CR NR RIDGWAY, PA. (LAT 41 23 52 LONG 078 49 23)											
MAY , 1974 20...	1200	58	50	0	0	10	--	8	14	3.4	--
03029184 - WOLF RUN AT PARRISH, PA. (LAT 41 29 27 LONG 078 59 49)											
MAY , 1974 21...	1200	8.0	50	0	0	10	--	8	--	--	--
03029185 - SPRING CREEK NEAR HALLTON, PA. (LAT 41 24 59 LONG 078 56 52)											
APR., 1974 12...	1430	285	200	100	0	4	--	3	15	2.7	--

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03028750 - LAUREL RUN NR SAINT MARYS, PA. (LAT 41 25 07 LONG 078 36 18)										
APR., 1974 08...	--	31	29	5.0	.1	80	6.2	4.6	--	--
03028800 - DAGUSCAHONDA CR AT DAGUSCAHONDA, PA. (LAT 41 25 09 LONG 078 38 32)										
APR., 1974 08...	--	44	44	25	.5	160	4.2	4.0	--	.0
03028900 - ELK CREEK AT RIDGWAY, PA. (LAT 41 25 31 LONG 078 43 38)										
APR., 1974 08...	--	43	41	5.0	.1	105	6.0	4.4	13.6	--
SEP. 26...	.24	--	--	4.0	.1	198	7.0	14.0	--	2.2
03029000 - CLARION RIVER AT RIDGWAY, PA. (LAT 41 25 15 LONG 078 44 10)										
APR., 1974 08...	--	41	31	5.0	.1	100	6.2	4.6	--	--
03029120 - BIG MILL CR NR RIDGWAY, PA. (LAT 41 24 58 LONG 078 46 31)										
MAY , 1974 20...	--	13	10	.0	.0	30	5.5	17.0	--	20
03029140 - BRANDYCAMP CR NR ELBON, PA. (LAT 41 17 10 LONG 078 41 22)										
APR., 1974 09...	--	120	120	50	1.0	360	4.2	3.1	10.2	.0
03029144 - MEAD RUN AT BROCKPORT, PA. (LAT 41 15 38 LONG 078 43 33)										
APR., 1974 10...	--	120	110	.0	.0	280	6.3	1.5	12.4	8.0
03029150 - LITTLE TOBY CREEK AT BROCKWAY, PA. (LAT 41 15 09 LONG 078 47 48)										
APR., 1974 10...	--	140	140	15	.3	310	5.2	4.2	10.8	--
03029170 - LITTLE TOBY CREEK AT PORTLAND MILLS, PA. (LAT 41 21 53 LONG 078 49 22)										
APR., 1974 11...	--	120	120	5.0	.1	300	4.6	9.5	--	--
03029180 - BEAR CR NR RIDGWAY, PA. (LAT 41 23 52 LONG 078 49 23)										
MAY , 1974 20...	--	27	19	.0	.0	60	6.9	16.2	--	2.0
03029184 - WOLF RUN AT PARRISH, PA. (LAT 41 29 27 LONG 078 59 49)										
MAY , 1974 21...	--	12	4	.0	.0	30	5.7	16.2	--	32
03029185 - SPRING CREEK NEAR HALLTON, PA. (LAT 41 24 59 LONG 078 56 52)										
APR., 1974 12...	--	15	12	.0	.0	58	6.9	8.5	14.0	.8

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
03029200 - CLEAR CREEK NEAR SIGEL, PA. (LAT 41 19 17 LONG 079 04 39)											
SEP., 1974											
23...	1215	5.9	--	--	--	10	0	8	12	2.5	.04
03029400 - TOMS RUN AT COOKSBURG, PA. (LAT 41 20 16 LONG 079 12 50)											
APR., 1974											
10...	1720	29	240	120	400	2	--	2	14	13	--
03029700 - MILL CREEK NR STRATTANVILLE, PA. (LAT 41 14 15 LONG 079 17 11)											
APR., 1974											
09...	1335	161	1900	1750	4000	0	--	0	100	14	--
03030600 - PINEY CREEK AT PINEY, PA. (LAT 41 10 12 LONG 079 28 20)											
APR., 1974											
11...	0855	232	2600	--	5100	0	--	0	178	17	--
SEP.											
27...	1500	28	--	--	--	0	0	0	364	14	.75
03030700 - DEER CREEK AT PINEY, PA. (LAT 41 10 24 LONG 079 28 41)											
APR., 1974											
11...	1030	380	2400	--	1000	0	--	0	110	12	--
03030750 - CANOE CREEK NEAR CALLENSBURG, PA. (LAT 41 09 46 LONG 079 31 57)											
APR., 1974											
10...	1030	27	1100	350	300	8	--	7	104	26	--
03030800 - BEAVER CREEK NEAR TURKEY CITY, PA. (LAT 41 10 53 LONG 079 33 41)											
APR., 1974											
08...	1520	36	500	90	400	18	--	15	20	19	--
03030900 - LICKING CREEK AT CALLENSBURG PA (LAT 41 07 25 LONG 079 34 06)											
APR., 1974											
09...	1030	133	5900	3900	5100	2	--	2	312	16	--
03031000 - CLARION RIVER AT ST. PETERSBURG PA (LAT 41 08 57 LONG 079 39 37)											
APR., 1974											
10...	1200	3700	800	380	1000	2	--	2	76	14	--
03031620 - LABORDE BRANCH NR HOMECAMP, PA. (LAT 41 06 18 LONG 078 42 52)											
SEP., 1974											
26...	0645	13	--	--	--	12	0	10	137	18	.41
03031650 - KYLE RUN NR. FALLS CREEK, PA. (LAT 41 09 37 LONG 078 51 51)											
SEP., 1974											
26...	1400	1.7	--	--	--	--	0	--	29	7.5	1.8
03031770 - SANDY LICK CREEK NEAR BROOKVILLE, PA. (LAT 41 09 20 LONG 079 03 12)											
APR., 1974											
12...	0900	511	600	120	400	6	--	5	47	15	--

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03029200 - CLEAR CREEK NEAR SIGEL, PA. (LAT 41 19 17 LONG 079 04 39)										
SEP., 1974 23...	.19	--	--	1.0	.0	51	7.1	10.0	--	1.3
03029400 - TOMS RUN AT COOKSBURG, PA. (LAT 41 20 16 LONG 079 12 50)										
APR., 1974 10...	--	34	32	.0	.0	68	6.7	3.7	13.5	.6
03029700 - MILL CREEK NR STRATTANVILLE, PA. (LAT 41 14 15 LONG 079 17 11)										
APR., 1974 09...	--	120	120	24	.5	240	3.8	2.5	7.5	.0
03030600 - PINEY CREEK AT PINEY, PA. (LAT 41 10 12 LONG 079 28 20)										
APR., 1974 11...	--	140	140	36	.7	420	4.1	3.5	8.4	.0
SEP. 27...	.00	--	--	37	.8	758	3.9	14.0	--	.0
03030700 - DEER CREEK AT PINEY, PA. (LAT 41 10 24 LONG 079 28 41)										
APR., 1974 11...	--	86	86	35	.7	265	3.5	2.5	9.2	.0
03030750 - CANOE CREEK NEAR CALLENSBURG, PA. (LAT 41 09 46 LONG 079 31 57)										
APR., 1974 10...	--	94	87	5.0	.1	330	6.4	2.0	--	--
03030800 - BEAVER CREEK NEAR TURKEY CITY, PA. (LAT 41 10 53 LONG 079 33 41)										
APR., 1974 08...	--	48	33	.0	.0	125	6.5	4.3	11.2	9.1
03030900 - LICKING CREEK AT CALLENSBURG PA (LAT 41 07 25 LONG 079 34 06)										
APR., 1974 09...	--	330	330	12	.2	710	4.7	3.0	11.0	--
03031000 - CLARION RIVER AT ST. PETERSBURG PA (LAT 41 08 57 LONG 079 39 37)										
APR., 1974 10...	--	67	65	4.9	.1	200	6.5	5.0	--	--
03031620 - LABORDE BRANCH NR HOMECAMP, PA. (LAT 41 06 18 LONG 078 42 52)										
SEP., 1974 26...	.18	--	--	2.0	.0	386	6.9	9.0	--	2.4
03031650 - KYLE RUN NR. FALLS CREEK, PA. (LAT 41 09 37 LONG 078 51 51)										
SEP., 1974 26...	.32	--	--	2.0	.0	150	6.8	9.5	--	--
03031770 - SANDY LICK CREEK NEAR BROOKVILLE, PA. (LAT 41 09 20 LONG 079 03 12)										
APR., 1974 12...	--	65	60	.0	.0	150	6.5	5.5	11.0	3.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
03031900 - BEAVER RUN AT HEATHVILLE, PA. (LAT 41 05 25 LONG 079 10 52)											
APR., 1974 12...	1230	30	1800	1500	2500	8	--	7	144	8.0	--
03031980 - LITTLE SANDY CREEK NEAR NORTH FREEDOM, PA. (LAT 41 01 58 LONG 079 11 05)											
APR., 1974 10...	1500	159	600	0	400	8	--	7	85	12	--
03032400 - LEATHERWOOD CREEK NEAR NEW BETHLEHEM, PA. (LAT 41 01 12 LONG 079 23 14)											
APR., 1974 11...	1440	67	400	30	400	12	--	10	160	11	--
03036300 - NORTH FORK PINE CR NR MUSGROVE, PA. (LAT 40 52 38 LONG 079 24 00)											
SEP., 1974 27...	0840	2.4	--	--	--	39	0	32	70	7.5	--
03039700 - DARK SHADE CR. AT CENTRAL CITY, PA. (LAT 40 06 18 LONG 078 47 55)											
SEP., 1974 23...	1315	2.9	--	--	--	0	0	0	140	1.5	.25
03045300 - MCCUNE RUN AT KEYSTONE STATE PARK, PA. (LAT 40 22 26 LONG 079 22 25)											
SEP., 1974 23...	1550	4.6	--	--	--	28	0	23	23	2.0	.70
03048300 - BEAVER RUN NR. SLICKVILLE, PA. (LAT 40 26 25 LONG 79 32 39)											
SEP., 1974 25...	1005	17	--	--	--	51	0	42	66	9.0	.97
03049610 - BULL CREEK AT TARENTUM, PA. (LAT 40 36 54 LONG 079 45 36)											
SEP., 1974 24...	0945	29	--	--	--	55	0	45	95	12	1.2
03049630 - PUCKETA CREEK AT NEW KENSINGTON, PA. (LAT 40 33 05 LONG 79 45 03)											
SEP., 1974 24...	1145	17	--	--	--	92	0	75	97	12	.86
03049810 - PINE CREEK AT ETNA, PA. (LAT 40 29 42 LONG 79 56 26)											
SEP., 1974 24...	1445	48	--	--	--	120	0	98	110	57	1.4
03072700 - WHITELEY CREEK AT KIRBY, PA. (LAT 39 48 08 LONG 080 07 02)											
SEP., 1974 23...	1805	14	--	--	--	54	0	44	37	3.0	.27

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03031900 - BEAVER RUN AT HEATHVILLE, PA. (LAT 41 05 25 LONG 079 10 52)										
APR., 1974 12...	--	150	140	14	.3	345	6.0	9.1	10.1	--
03031980 - LITTLE SANDY CREEK NEAR NORTH FREEDOM, PA. (LAT 41 01 58 LONG 079 11 05)										
APR., 1974 10...	--	78	63	.0	.0	230	6.8	7.0	--	2.0
03032400 - LEATHERWOOD CREEK NEAR NEW BETHLEHEM, PA. (LAT 41 01 12 LONG 079 23 14)										
APR., 1974 11...	--	190	180	.0	.0	385	6.6	7.3	12.2	4.0
03036300 - NORTH FORK PINE CR NR MOSGROVE, PA. (LAT 40 52 38 LONG 079 24 00)										
SEP., 1974 27...	.00	--	--	2.0	.0	247	6.8	14.0	--	9.9
03039700 - DARK SHADE CR. AT CENTRAL CITY, PA. (LAT 40 06 18 LONG 078 47 55)										
SEP., 1974 23...	.00	--	--	132	2.6	501	--	11.0	--	--
03045300 - MCCUNE RUN AT KEYSTONE STATE PARK, PA. (LAT 40 22 26 LONG 079 22 25)										
SEP., 1974 23...	.00	--	--	2.0	.0	112	--	12.0	--	--
03048300 - BEAVER RUN NR. SLICKVILLE, PA. (LAT 40 26 25 LONG 79 32 39)										
SEP., 1974 25...	.01	--	--	4.0	.1	253	--	10.5	--	--
03049610 - BULL CREEK AT TARENTUM, PA. (LAT 40 36 54 LONG 079 45 36)										
SEP., 1974 24...	.00	--	--	2.0	.0	331	--	8.5	--	--
03049630 - PUCKETA CREEK AT NEW KENSINGTON, PA. (LAT 40 33 05 LONG 79 45 03)										
SEP., 1974 24...	.00	--	--	2.0	.0	385	--	9.0	--	--
03049810 - PINE CREEK AT ETNA, PA. (LAT 40 29 42 LONG 79 56 26)										
SEP., 1974 24...	.18	--	--	2.0	.0	582	--	12.0	--	--
03072700 - WHITELEY CREEK AT KIRBY, PA. (LAT 39 48 08 LONG 080 07 02)										
SEP., 1974 23...	.01	--	--	4.0	.1	179	--	14.5	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
03072830 - DANIELS RUN AT MARIANNA, PA. (LAT 40 01 37 LONG 080 05 26)												
SEP., 1974 23...	1330	20	--	--	--	--	--	--	190	0	156	620
03074500 - REDSTONE CREEK AT WALTERSBURG, PA. (LAT 39 58 48 LONG 079 45 52)												
DEC., 1973 06...	1445	49	7.5	34000	140	50	60	4.5	41	0	34	560
03075040 - PIGEON CREEK AT MONONGAHELA, PA. (LAT 40 11 26 LONG 079 55 50)												
SEP., 1974 25...	1230	48	--	--	--	--	--	--	240	0	197	400
03075090 - PETERS CREEK AT LARGE, PA. (LAT 40 17 31 LONG 079 54 56)												
SEP., 1974 25...	1520	32	--	--	--	--	--	--	130	0	107	410
03079600 - LAUREL HILL CR. NR. BAKERSVILLE, PA. (LAT 40 00 32 LONG 079 14 04)												
SEP., 1974 23...	1105	23	--	--	--	--	--	--	22	0	18	16
03083100 - JACOBS CREEK AT JACOBS CREEK, PA. (LAT 40 07 23 LONG 079 44 14)												
SEP., 1974 25...	1015	107	--	--	--	--	--	--	44	0	36	76
03099900 - PADEN CREEK NR PENNLINE, PA. (LAT 41 44 16 LONG 080 28 17)												
SEP., 1974 27...	0900	.99	--	--	--	--	--	--	150	0	123	25
03106030 - SLIPPERY ROCK CREEK AT BOYERS, PA. (LAT 41 06 34 LONG 079 54 30)												
SEP., 1974 27...	1130	11	--	--	--	--	--	--	0	0	0	250
03107700 - TRAVERSE CREEK AT RACCOON CREEK STATE PARK, PA. (LAT 40 30 04 LONG 080 25 17)												
SEP., 1974 25...	1615	9.5	--	--	--	--	--	--	65	0	53	52
03109300 - NORTH FORK LITTLE BEAVER CR AT DARLINGTON, PA. (LAT 40 46 22 LONG 080 25 22)												
SEP., 1974 25...	1400	47	--	--	--	--	--	--	180	0	148	270

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
03072830 - DANIELS RUN AT MARIANNA, PA. (LAT 40 01 37 LONG 080 05 26)												
SEP., 1974 23...	100	--	.61	.01	--	--	.0	.0	1780	--	12.0	--
03074500 - REDSTONE CREEK AT WALTERSBURG, PA. (LAT 39 58 48 LONG 079 45 52)												
DEC., 1973 06...	18	.4	2.0	--	560	520	--	--	1230	6.0	9.0	66
03075040 - PIGEON CREEK AT MONONGAHELA, PA. (LAT 40 11 26 LONG 079 55 50)												
SEP., 1974 25...	57	--	.88	.01	--	--	4.0	.1	1340	6.5	12.5	121
03075090 - PETERS CREEK AT LARGE, PA. (LAT 40 17 31 LONG 079 54 56)												
SEP., 1974 25...	66	--	--	.33	--	--	7.0	.2	1270	6.7	14.0	42
03079600 - LAUREL HILL CR. NR. BAKERSVILLE, PA. (LAT 40 00 32 LONG 079 14 04)												
SEP., 1974 23...	13	--	.77	.00	--	--	1.0	.0	111	--	11.0	--
03083100 - JACOBS CREEK AT JACOBS CREEK, PA. (LAT 40 07 23 LONG 079 44 14)												
SEP., 1974 25...	10	--	1.3	.01	--	--	2.0	.0	277	6.2	12.0	44
03099900 - PAUEN CREEK NR PENNLINE, PA. (LAT 41 44 16 LONG 080 28 17)												
SEP., 1974 27...	9.5	--	1.3	.00	--	--	2.0	.0	304	7.4	10.5	9.6
03106030 - SLIPPERY ROCK CREEK AT BOYERS, PA. (LAT 41 06 34 LONG 079 54 30)												
SEP., 1974 27...	11	--	.16	.00	--	--	24	.5	514	4.0	12.0	.0
03107700 - TRAVERSE CREEK AT RACCOON CREEK STATE PARK, PA. (LAT 40 30 04 LONG 080 25 17)												
SEP., 1974 25...	8.0	--	1.1	.00	--	--	1.0	.0	242	--	12.5	--
03109300 - NORTH FORK LITTLE BEAVER CR AT DARLINGTON, PA. (LAT 40 48 22 LONG 080 25 22)												
SEP., 1974 25...	22	--	.50	.01	--	--	.0	.0	750	--	12.0	--

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

412202080050700 LAKE WILHELM.--Lat 41°22'02", long 80°05'07", Mercer County, 1 mi (1.6 km) north of Sandy Lake at point 2,000 ft (610 m) upstream from dam on Sandy Creek. Drainage area, 56.5 mi² (146.3 km²). Surface area, 1,860 acres (7.53 km²). Capacity at normal pool elevation of 1,192 ft (363.3 m), 19,875 acre-feet (24.5 hm³). Mean flow-through-time, 109 days at 92 ft³/s (2.61 m³/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

404250079303000 CROOKED CREEK LAKE.--Lat 40°42'50", long 79°30'30", Armstrong County, 6 mi (9.7 km) south of Kittanning at point 300 ft (91 m) upstream from dam on Crooked Creek. Drainage area, 277 mi² (717.4 km²). Surface area, 350 acres (1.42 km²). Capacity at normal pool elevation of 840 ft (256.0 m), 4,500 acre-feet (5.55 hm³). Mean flow-through-time, 5.4 days at 417 ft³/s (11.8 m³/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation and flood control.

402225079232800 KEYSTONE LAKE.--Lat 40°22'25", long 79°23'28", Westmoreland County, 2 mi (3.2 km) southeast of New Alexandria at point 300 ft (91 m) upstream from dam on tributary to Loyalhanna Creek. Drainage area, 3.5 mi² (9.1 km²). Surface area, 78 acres (784,000 m²). Capacity at normal pool elevation of 1,051 ft (320.3 m), 350 acre-feet (432,000 m³). Mean flow-through-time, 27 days at 6.5 ft³/s (0.18 m³/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

400323079133000 KOOSER LAKE.--Lat 40°03'23", long 79°13'30", Somerset County, 1 mi (1.6 km) west of Bakersville at point 100 ft (30 m) upstream from dam on Kooser Run. Drainage area, 3.2 mi² (8.3 km²). Surface area, 9 acres (36,400 m²). Capacity at normal pool elevation of 2,280 ft (694.9 m), 30 acre-feet (37,000 m³). Mean flow-through-time, 2.3 days at 6.6 ft³/s (0.18 m³/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

412954080274700 PYMATUNING RESERVOIR.--Lat 41°29'54", long 80°27'47", Crawford County, 2 mi (3.2 km) northwest of Jamestown at point 3,000 ft (914 m) upstream from dam on Shenango River. Drainage area, 158 mi² (409 km²). Surface area, 14,500 acres (58.7 km²). Capacity at normal pool elevation of 1,008 ft (307.2 m), 188,120 acre-feet (232.0 hm³). Mean flow-through-time, 508 days at 186.5 ft³/s (5.28 m³/s). Period of record, chemical analyses, water year 1974 (partial-record station). Lake is used for recreation.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

OHIO RIVER BASIN

412202080050700 LAKE WILHELM (LAT 41 22 02 LONG 080 05 07)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
AUG. 28...	1130	2.4	80	10	18	4.2	4.2	1.6	60	49	17	7.5

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
AUG. 28...	.2	.02	.00	.02	.29	.37	.66	.68	.05	.02	98

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG. 28...	85	62	13	167	7.1	22.0	7	38	6.1	7.6	13

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
AUG. 28...	.0	0	.5	.9	.0	.0	.0	.0	.0	.0	0

DATE	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	2,4-D IN BOTTOM DE- POSITS (UG/KG)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX IN BOTTOM DE- POSITS (UG/KG)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
AUG. 28...	0	0	0	0	6	0	0	10	0	3	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

OHIO RIVER BASIN

404250079303000 CROOKED CREEK LAKE (LAT 40 42 50 LONG 079 30 30)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
AUG. 13...	1100	6.8	280	970	49	14	46	2.7	19	16	220	30

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
AUG. 13...	.1	.78	.00	.78	.34	.01	.35	1.1	.01	.00	449

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG. 13...	379	180	160	645	6.4	24.0	1	165	8.5	12	.9

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
AUG. 13...	.0	0	3.1	2.6	.0	.4	.0	.0	.0	.0	14

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 13...	0	0	0	0	7	0	0	0	0	16	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

OHIO RIVER BASIN

402225079232800 KEYSTONE LAKE (LAT 40 22 25 LONG 079 23 28)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
AUG. 12...	1100	3.9	38	31	22	2.5	.2	.01	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
AUG. 12...	.01	.10	.20	.30	.31	.01	.01	102

400323079133000 KOOSER LAKE (LAT 40 03 23 LONG 079 13 30)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
AUG. 12...	0915	3.4	40	33	8.5	5.0	.1	.97	.03

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
AUG. 12...	1.0	.18	.12	.30	1.3	.04	.02	110

OHIO RIVER BASIN

412954080274700 PYMATUNING RESERVOIR (LAT 41 29 54 LONG 080 27 47)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
AUG. 27...	0945	1.5	40	10	16	4.2	4.0	1.8	44	36	23	7.2

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
AUG. 27...	.2	.03	.00	.03	.24	.49	.73	.76	.02	.01	72

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG. 27...	80	57	21	175	7.1	23.0	1	45	7.2	5.6	9.1

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
AUG. 27...	.0	0	4.8	2.1	.0	.0	.0	.0	.0	.0	0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 27...	0	0	0	0	7	0	0	10	0	3	0

SECTION B

SEDIMENT RECORDS

Preceding page blank

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, and 4.0 mi (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi^2 (10,749 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1974.
Water temperatures: October 1966 to September 1974.
Sediment records: July 1964 to September 1974.

EXTREMES.--1973-74
Sediment concentrations: Maximum daily, 169 mg/l Dec. 22; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 32,000 tons (29,000 t) Dec. 22; minimum daily, 4.2 tons (3.8 t) Nov. 23.

Period of record:
Sediment concentrations: Maximum daily, 640 mg/l June 30, 1973; minimum daily, less than 0.5 mg/l on many days.
Sediment discharges: Maximum daily, 165,000 tons (150,000 t) June 30, 1973; minimum daily, less than 0.05 tons (0.04 t) on many days.

REMARKS.--Chemical analyses for this station on page 56. Records of discharge are given for 01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2000	1	5.4	4130	13	145	6210	14	235
2	2000	1	5.4	3590	8	78	5160	11	153
3	2300	1	6.2	3080	2	17	4560	9	111
4	2300	1	6.2	2780	2	15	4220	5	57
5	3000	3	24	2600	2	14	4190	3	34
6	3700	35	350	2180	1	5.9	7500	10	203
7	2600	13	91	1930	1	5.2	12600	27	919
8	1900	5	26	2300	1	6.2	10100	21	573
9	2600	4	28	2450	1	6.6	8980	12	291
10	2800	3	23	2690	2	15	19900	25	1340
11	2480	2	13	2600	1	7.0	21800	26	1530
12	1850	1	5.0	2690	2	15	14900	15	603
13	2000	1	5.4	2790	2	15	11700	9	284
14	2700	2	15	2960	2	16	11100	7	210
15	2400	2	13	2990	1	8.1	11700	6	190
16	2200	2	12	2870	2	15	10300	5	139
17	2200	1	5.9	2960	1	8.0	8940	5	121
18	2200	1	5.9	3080	2	17	8140	5	110
19	2300	1	6.2	3020	2	16	7020	4	76
20	2150	1	5.8	2960	1	8.0	7100	4	77
21	2210	1	6.0	2810	1	7.6	29900	34	2740
22	2180	1	5.9	2240	1	6.0	71700	169	32700
23	2570	2	14	1560	1	4.2	36500	22	2170
24	2630	3	21	1600	1	4.3	23800	19	1220
25	2750	2	15	2420	3	20	16600	16	717
26	2210	1	6.0	3080	2	17	13600	22	808
27	2120	1	5.7	4460	5	60	21200	46	2630
28	2150	1	5.8	4560	6	74	36800	24	2380
29	2270	3	18	6860	13	241	31200	17	1430
30	4950	27	361	7460	16	322	23000	10	621
31	5300	29	415	--	--	--	18200	6	295
TOTAL	79020	--	1525.8	93700	--	1189.1	518620	--	54967

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15300	4	165	16700	6	271	9110	7	172
2	13900	3	113	14600	2	79	8470	5	114
3	12500	1	34	12700	1	34	8200	6	133
4	11500	1	31	11000	2	59	7520	11	223
5	10000	1	27	10000	3	81	8100	10	219
6	8660	1	23	9340	3	76	10900	8	235
7	7820	1	21	8950	6	145	14200	19	728
8	7950	2	43	8000	9	194	13100	13	460
9	7330	2	40	7400	6	120	13300	10	359
10	6690	3	54	7000	5	95	13900	7	263
11	8000	2	43	6640	3	54	12400	6	201
12	8000	4	86	6300	5	85	11800	5	159
13	7000	3	57	6210	3	50	10100	11	300
14	5700	1	15	5940	3	48	9330	15	378
15	5600	1	15	5600	3	45	8110	17	372
16	6000	2	32	5440	5	73	7880	18	383
17	6400	1	17	5200	6	84	9400	11	279
18	6000	1	16	4900	4	53	13900	9	338
19	5800	1	16	4970	11	148	12500	7	236
20	5600	1	15	6010	9	146	11400	5	154
21	5810	1	16	6320	8	137	10500	6	170
22	8640	5	117	5880	9	143	13800	7	261
23	11800	11	350	12300	21	697	17600	10	475
24	12300	17	565	21500	68	3950	14600	8	315
25	11600	5	157	15500	41	1720	13200	6	214
26	10800	3	87	13700	27	999	13200	5	178
27	9630	3	78	11500	18	559	12000	5	162
28	19500	31	1630	9370	11	278	10900	5	147
29	24600	39	2590	--	--	--	9850	6	160
30	23900	24	1550	--	--	--	9610	3	78
31	19300	12	625	--	--	--	9340	2	50
TOTAL	323630	--	8628	258970	--	10423	348220	--	7916

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10800	2	58	4920	6	80	4360	4	47
2	13200	28	998	5940	7	112	7570	11	225
3	15200	23	944	6440	6	104	7430	8	160
4	17900	19	918	6220	7	118	5610	7	106
5	22500	16	972	6450	5	87	5330	5	72
6	26800	18	1300	5840	6	95	5540	4	60
7	27500	18	1340	5940	5	80	5210	4	56
8	22300	12	723	6580	4	71	4400	5	59
9	19200	11	570	6210	2	34	3530	6	57
10	20800	11	618	6000	2	32	3290	7	62
11	17600	9	428	6640	3	54	3580	8	77
12	16200	7	306	6690	6	108	3700	10	100
13	15600	6	253	17700	23	1100	3000	9	73
14	15900	7	301	25600	56	3870	2470	8	53
15	19300	10	521	18300	28	1380	1890	7	36
16	24700	41	2730	14600	18	710	2680	9	65
17	20600	9	501	12200	12	395	4930	15	200
18	16800	8	363	11200	9	272	6800	22	404
19	14700	8	318	8960	8	194	5400	7	102
20	13500	6	219	7780	7	147	3400	6	55
21	11100	7	210	7150	5	97	3200	5	43
22	9840	7	186	6130	4	66	3000	5	41
23	8760	7	166	6460	5	87	3700	6	60
24	7920	6	128	6050	5	82	3500	4	38
25	7480	6	121	5860	5	79	3100	2	17
26	6740	5	91	5080	4	55	3000	3	24
27	6250	6	101	4500	4	49	3100	4	33
28	5800	5	78	4270	3	35	3700	12	120
29	5360	5	72	3700	3	30	4000	7	76
30	4720	5	64	3770	2	20	2800	5	38
31	--	--	--	4330	1	12	--	--	--
TOTAL	445070	--	15598	247510	--	9655	123220	--	2559

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3100	2	17	5100	9	124	4200	2	23
2	4100	9	100	3700	7	70	7500	19	385
3	3500	5	47	3400	6	55	10000	30	810
4	3600	4	39	2900	11	86	12600	33	1120
5	3300	4	36	2800	11	83	12000	30	972
6	3300	3	27	2600	9	63	8400	25	567
7	2500	2	14	2300	5	31	7800	21	442
8	2300	1	6.2	2000	5	27	7700	15	312
9	3000	8	65	1700	4	18	6800	13	239
10	3200	5	43	1600	4	17	5600	11	166
11	2600	4	28	1700	5	23	5370	9	130
12	1700	3	14	1800	7	34	4630	8	100
13	1900	3	15	2000	8	43	4300	6	70
14	2250	4	24	2100	7	40	4120	5	56
15	2060	6	33	2200	6	36	3270	3	26
16	3170	7	60	2200	7	42	2950	3	24
17	2600	4	28	2300	6	37	3110	3	25
18	1800	2	9.7	3170	4	34	2880	1	7.8
19	2000	1	5.4	4560	4	49	2740	2	15
20	2440	2	13	3400	5	46	2770	1	7.5
21	2140	2	12	2900	6	47	2790	2	15
22	2000	1	5.4	2500	5	34	2220	1	6.0
23	1900	5	26	2400	5	32	3030	4	33
24	2100	7	40	2300	6	37	3980	7	75
25	2400	4	26	2200	5	30	3510	5	47
26	2500	2	14	2200	5	30	3140	3	25
27	2500	1	6.8	2400	4	26	2340	2	13
28	2500	4	27	2300	2	12	2470	2	13
29	2900	8	63	2500	3	20	4880	11	145
30	6290	7	119	3200	4	35	11100	20	599
31	7300	--	--	4200	--	--	--	--	--
TOTAL	88950	--	963.5	82630	--	1261	158200	--	6468.3

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	2767740
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	121153.7

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .C62 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
DEC. 22...	1510	70470	2.0	169	32200	38	54	69	82	91	100

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)
(International Hydrological Decade River and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, at gaging station. Water-quality recorder located at raw-water intake of the Trenton Water Department about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi^2 (17,560 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1974.
Water temperatures: October 1944 to September 1974.
Sediment records: September 1949 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 915 mg/l Dec. 22; minimum daily, 1 mg/l on several days during November, January, and February.
Sediment discharges: Maximum daily, 264,000 tons (239,500 t) Dec. 22; minimum daily, 11 tons (9.9 t) Nov. 24.

Period of record:
Sediment concentrations: Maximum daily, 1,720 mg/l Nov. 26, 1950; minimum daily, 0 mg/l Oct. 21, 1952.
Sediment discharges: Maximum daily, 1,087,000 tons (986,000 t) Aug. 20, 1955; minimum daily, 0 tons (0 t) Oct. 21, 1952.

REMARKS.--Chemical analyses for this station on page 84. Operated as part of the USGS-EPA surveillance network. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1779-X.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5770	5	78	12300	40	1330	11300	41	1250
2	5070	5	68	10300	22	612	9520	32	823
3	5670	21	321	8470	19	435	8390	13	294
4	6200	7	117	7350	10	198	7660	5	103
5	5860	8	127	6760	6	110	8080	7	153
6	5060	7	96	6330	6	103	16400	95	4210
7	6290	13	221	5700	4	62	19400	83	4350
8	5380	5	73	5270	3	43	19800	64	3420
9	4270	2	23	5470	2	30	19900	44	2360
10	4250	12	138	5610	2	30	28000	39	2950
11	4840	4	52	5610	1	15	38000	77	7900
12	4560	3	37	5510	1	15	29300	45	3560
13	4000	2	22	5460	1	15	22900	23	1420
14	3520	2	19	5340	1	14	23400	19	1200
15	4230	9	103	5450	3	44	23600	13	828
16	4250	6	69	5430	2	29	21500	10	581
17	3850	3	31	5260	1	14	19400	9	471
18	3760	3	30	5270	1	14	17000	8	367
19	3920	3	32	5440	2	29	14700	7	278
20	3830	4	41	5370	1	14	13500	5	182
21	3760	3	30	5030	1	14	53900	530	77100
22	3800	2	21	4780	1	13	107000	915	264000
23	3730	2	20	4680	1	13	77300	240	50100
24	3850	2	21	4080	1	11	50200	33	4470
25	4110	3	33	3970	1	11	39400	16	1700
26	4140	3	34	5020	19	258	35900	26	2520
27	3780	2	20	5560	23	345	42500	42	4820
28	3660	2	20	7430	56	1120	52800	64	9120
29	4930	105	1400	9230	74	1840	54400	33	4850
30	13000	440	15400	11700	82	2590	42900	18	2080
31	15100	150	6120	--	--	--	35000	11	1040
TOTAL	158440	--	24817	189180	--	9371	963050	--	458500

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	30100	8	650	28800	14	1090	15900	11	472
2	26900	6	436	25600	9	622	15400	9	374
3	24700	5	333	22900	5	309	14900	8	322
4	24000	5	324	20100	3	163	13900	10	375
5	20700	4	224	18200	4	197	13200	11	392
6	17600	4	190	16500	3	134	14900	11	443
7	16100	3	130	15100	2	82	18400	19	944
8	15600	3	126	14500	1	39	19000	14	718
9	16000	2	86	13700	1	37	20300	18	987
10	14300	3	116	12800	1	35	22300	17	1020
11	13600	2	73	12200	2	66	21900	17	1010
12	15600	7	295	11600	2	63	19800	12	642
13	14500	2	78	11400	2	62	18600	8	402
14	12300	1	33	11300	1	31	16600	4	179
15	10700	1	29	11100	6	180	14900	3	121
16	12200	2	66	10800	9	262	13800	4	149
17	12500	2	68	9930	9	241	18700	23	1160
18	12700	2	69	9480	8	205	22500	14	851
19	10800	1	29	9230	8	199	21100	9	513
20	11200	2	60	11600	14	438	19000	7	359
21	11600	7	219	13200	18	642	20400	110	6060
22	17200	36	1670	12300	16	531	26200	88	6230
23	21600	28	1630	18800	23	1170	29300	32	2530
24	23500	17	1080	31200	59	4970	25500	15	1030
25	22900	10	618	26400	37	2640	22900	9	556
26	21600	6	350	22800	21	1290	21000	7	397
27	20900	4	226	19500	13	684	19700	6	319
28	23500	6	381	17100	11	508	18100	5	244
29	35400	39	3730	--	--	--	16600	7	314
30	38600	39	4060	--	--	--	17000	5	230
31	33800	23	2100	--	--	--	25100	46	3120
TOTAL	602700	--	19479	458140	--	16890	596900	--	32463

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	24200	23	1500	9870	8	213	8520	6	138
2	24300	15	984	10100	8	218	9770	8	211
3	26200	15	1060	11700	8	253	13000	20	702
4	31900	17	1460	12000	8	259	11700	18	569
5	40200	83	9010	11400	7	215	9830	17	451
6	44800	54	6530	11200	8	242	9300	16	402
7	43700	34	4010	11300	8	244	8410	15	341
8	36200	21	2050	11500	8	248	7840	14	296
9	37300	39	3930	11600	8	251	7230	15	293
10	37600	26	2640	13200	17	606	6330	14	239
11	32900	17	1510	12900	15	522	5690	14	215
12	28500	13	1000	13400	24	868	6070	15	246
13	27900	13	979	26700	220	15900	5890	14	223
14	27700	15	1120	40000	190	20500	5350	14	202
15	30800	68	5650	32600	70	6160	4720	13	166
16	35900	102	9890	25600	44	3040	4210	13	148
17	34400	68	6320	21700	33	1930	7880	21	447
18	29000	30	2350	19800	28	1500	10500	35	992
19	25300	16	1090	17600	26	1240	10100	27	736
20	23900	12	774	15000	29	1170	8100	24	525
21	21400	11	636	13500	33	1200	6650	21	377
22	18800	11	558	12500	32	1080	6240	14	236
23	17500	10	473	11600	27	846	6150	12	199
24	15900	10	429	11900	19	610	7830	17	359
25	14700	9	357	11100	12	360	7290	15	295
26	13800	8	298	10700	11	318	6750	14	255
27	12800	7	242	9590	11	285	6140	15	249
28	11900	5	161	8880	10	240	6240	13	219
29	11200	4	121	8480	9	206	6440	10	174
30	10700	7	202	7850	8	170	7640	10	206
31	--	--	--	7840	7	148	--	--	--
TOTAL	791400	--	67334	453110	--	61042	227810	--	10111

01463500 DELAWARE RIVER AT TRENTON, N.J.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCENTRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCENTRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCENTRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	6430	10	174	9560	25	645	9230	57	1420
2	7030	10	190	8740	29	684	13500	103	3750
3	8110	10	219	8630	40	932	18400	140	6960
4	7310	9	178	6800	16	294	26400	150	10700
5	6720	8	145	6910	13	243	24900	100	6720
6	6080	9	148	6570	12	213	20400	50	2750
7	6380	9	155	5600	11	166	18200	41	2010
8	5270	8	114	4880	9	119	17600	36	1710
9	4510	7	85	4460	10	120	15600	30	1260
10	4840	15	196	5000	17	230	13600	27	991
11	5250	13	184	4270	17	196	11900	23	739
12	4880	12	158	3740	9	91	10500	23	652
13	3910	11	116	3610	7	68	9390	19	482
14	3350	9	81	3730	6	60	10400	18	505
15	3720	9	90	3810	5	51	10300	17	473
16	3620	10	98	3740	5	50	8730	15	354
17	3780	13	133	3940	6	64	7560	14	286
18	4400	13	154	10300	64	1780	7320	9	178
19	3350	10	90	7670	46	953	6830	6	111
20	2990	9	73	6790	35	642	6440	5	87
21	3770	9	92	6070	28	459	6410	5	87
22	3900	8	84	5460	22	324	6880	4	74
23	3500	7	66	5110	19	262	6270	5	85
24	3560	6	58	5370	16	232	6280	6	102
25	3680	6	60	4820	13	169	7200	5	97
26	3890	7	74	4310	9	105	6590	4	71
27	4100	7	77	4200	8	91	6050	3	49
28	4090	5	55	4570	9	111	5560	5	75
29	4030	6	65	5020	9	122	16500	360	16000
30	4400	7	83	5580	10	151	15900	95	4080
31	8740	25	590	8340	22	495	--	--	--
TOTAL	149590	--	4085	177600	--	10122	350840	--	62858

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 5118760
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 777072

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
DEC.					
21...	1700	70100	100	18900	90
MAR.					
25...	1000	22980	14	869	57
APR.					
19...	0900	24980	15	1010	78
MAY					
16...	1030	25080	20	1400	88
JUNE					
26...	1100	6850	11	203	96
JULY					
29...	1000	4012	7	76	83
AUG.					
28...	1000	4272	12	138	100
SEP.					
03...	1030	184000	145	10500	88
26...	1100	E6590	7	125	100

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.									
21...	1700	39	50	61	73	98	99	100	--
SEP.									
03...	1030	36	55	69	80	95	98	99	100

01470500 SCHUYLKILL RIVER AT BERNE, PA.

LOCATION.--Lat 40°31'20", long 75°59'55", Berks County, at highway bridge 50 ft (15 m) downstream from gaging station at Berne, 0.5 mi (0.8 km) upstream from Mill Creek, and 6.5 mi (10.5 km) downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi^2 (919 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1947 to February 1953, October 1956 to September 1974.
Water temperatures: February 1948 to September 1953, December 1957 to September 1974.
Sediment records: October 1947 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 300 mg/l Dec. 21; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 9,230 tons (8,373 t) Dec. 21; minimum daily, 0.53 tons (0.48 t) July 23, 27.

Period of record:
Sediment concentrations: Maximum daily, 8,030 mg/l Nov. 4, 1947; minimum daily, 0 mg/l on many days during 1952 and 1968.
Sediment discharges: Maximum daily, 90,180 tons (81,800 t) Nov. 12, 1947; minimum daily, 0 tons (0 t) on many days during 1952 and 1968.

REMARKS.--Chemical analyses for this station on page 126. Unpublished records of specific conductance and pH of sediment samples available in the district office at Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	432	5	5.8	745	4	8.0	408	5	5.5
2	432	5	5.8	615	3	5.0	393	3	3.2
3	540	6	8.7	523	4	5.6	378	4	4.1
4	440	4	4.8	515	2	2.8	371	5	5.0
5	416	4	4.5	472	4	5.1	1020	40	110
6	385	4	4.2	440	4	4.8	1750	30	142
7	385	3	3.1	401	3	3.2	1390	15	56
8	378	2	2.0	371	2	2.0	1140	11	34
9	364	1	.98	371	8	8.0	2350	80	508
10	455	2	2.5	357	15	14	3060	50	413
11	371	2	2.0	350	6	5.7	2320	16	100
12	343	2	1.9	350	10	9.5	1780	11	53
13	343	1	.93	329	12	11	1520	9	37
14	350	1	.95	329	8	7.1	2160	13	76
15	329	2	1.8	309	7	5.8	1740	5	23
16	309	2	1.7	315	10	8.5	1520	5	21
17	296	4	3.2	296	5	4.0	1420	8	31
18	296	4	3.2	309	4	3.3	1210	6	20
19	284	5	3.8	315	5	4.3	1010	3	8.2
20	277	4	3.0	284	10	7.7	982	6	16
21	296	4	3.2	265	12	8.6	11400	300	9230
22	284	3	2.3	252	14	9.5	7710	100	2080
23	271	1	.73	241	18	12	4230	35	400
24	271	1	.73	258	12	8.4	2910	14	110
25	258	2	1.4	336	7	6.4	2090	4	23
26	241	2	1.3	329	5	4.4	2160	10	58
27	252	3	2.0	284	6	4.6	3820	30	309
28	235	3	1.9	296	5	4.0	3450	19	177
29	322	10	8.7	624	16	27	2750	9	67
30	1450	50	196	440	6	7.1	2260	7	43
31	778	6	13	--	--	--	1860	7	35
TOTAL	12083	--	296.12	11321	--	217.4	72562	--	14198.0

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1660	4	18	1530	4	17	901	3	7.3
2	1430	4	15	1360	3	11	867	2	4.7
3	1290	5	17	1260	3	10	833	1	2.2
4	1260	4	14	1120	4	12	778	2	4.2
5	1080	3	8.7	970	3	7.9	778	3	6.3
6	1020	3	8.3	878	2	4.7	714	4	7.7
7	936	5	13	833	4	9.0	653	3	5.3
8	833	6	13	756	4	8.2	725	7	14
9	800	7	15	663	4	7.2	1570	30	127
10	789	7	15	643	1	1.7	1910	26	134
11	844	8	18	624	1	1.7	1680	12	54
12	890	7	17	549	2	3.0	1500	8	32
13	745	4	8.0	523	2	2.8	1310	7	25
14	653	5	8.8	523	3	4.2	1140	5	15
15	643	6	10	463	1	1.3	1020	4	11
16	624	7	12	432	1	1.2	1120	7	21
17	745	9	18	463	1	1.3	1420	11	42
18	674	7	13	440	3	3.6	1120	6	18
19	674	6	11	489	15	20	1070	4	12
20	694	4	7.5	789	27	58	982	4	11
21	1130	78	238	532	2	2.9	1480	23	92
22	2040	130	716	1270	19	65	1740	27	127
23	2090	90	508	2080	40	225	1550	10	42
24	1970	23	122	1550	10	42	1420	7	27
25	1750	8	38	1350	6	22	1190	7	22
26	1600	6	26	1140	4	12	1080	6	17
27	1680	7	32	982	3	8.0	924	5	12
28	1840	7	35	890	2	4.8	833	5	11
29	2230	24	145	--	--	--	756	4	8.2
30	1990	11	59	--	--	--	936	14	35
31	1780	6	29	--	--	--	1770	30	143
TOTAL	38384	--	2208.3	25102	--	567.5	35770	--	1089.9

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1970	22	117	472	5	6.4	577	10	16
2	1910	15	77	440	5	5.9	506	8	11
3	1890	12	61	480	8	10	440	6	7.1
4	2750	45	334	440	6	7.1	393	6	6.4
5	3210	40	347	416	7	7.9	371	7	7.0
6	3150	22	187	416	9	10	336	5	4.5
7	2640	13	93	408	9	9.9	322	4	3.5
8	2140	12	69	371	10	10	315	6	5.1
9	2210	13	78	401	11	12	329	4	3.6
10	1880	10	51	568	10	15	315	6	5.1
11	1630	8	35	432	9	10	302	5	4.1
12	1530	8	33	855	70	162	284	2	1.5
13	1450	8	31	2680	80	579	277	2	1.5
14	1310	8	28	1720	18	84	265	5	3.6
15	2480	30	201	1390	9	34	284	1	.77
16	1840	21	104	1140	9	28	343	5	4.6
17	1560	10	42	982	9	24	371	6	6.0
18	1380	8	30	959	11	28	277	3	2.2
19	1260	8	27	822	11	24	252	2	1.4
20	1160	7	22	714	10	19	258	2	1.4
21	1040	8	22	643	9	16	252	2	1.4
22	936	8	20	624	7	12	246	2	1.3
23	800	6	13	745	10	20	408	12	13
24	714	5	9.6	643	10	17	432	5	5.8
25	634	5	8.6	577	8	12	371	2	2.0
26	577	6	9.3	532	7	10	315	2	1.7
27	558	7	11	497	7	9.4	277	3	2.2
28	549	6	8.9	497	9	12	265	1	.72
29	532	6	8.6	463	7	8.8	440	9	11
30	497	6	8.1	472	6	7.6	357	6	5.8
31	--	--	--	424	6	6.9	--	--	--
TOTAL	46187	--	2086.1	22223	--	1217.9	10180	--	141.29

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1100	15	45	246	1	.66	271	5	3.7
2	684	7	13	235	3	1.9	811	50	109
3	532	4	5.7	653	20	35	596	9	14
4	463	2	2.5	472	12	15	1130	35	107
5	424	1	1.1	432	8	9.3	767	6	12
6	400	2	2.2	336	4	3.6	615	4	6.6
7	371	2	2.0	290	3	2.3	901	15	36
8	343	1	.93	265	3	2.1	745	5	10
9	322	1	.87	271	4	2.9	615	4	6.6
10	322	2	1.7	401	8	8.7	549	3	4.4
11	364	4	3.9	296	6	4.8	506	3	4.1
12	296	2	1.6	271	5	3.7	463	3	3.8
13	277	1	.75	265	4	2.9	643	5	8.7
14	265	1	.72	241	4	2.6	704	12	23
15	252	1	.68	218	3	1.8	577	7	11
16	235	1	.63	212	4	2.3	489	4	5.3
17	218	2	1.2	258	37	26	424	3	3.4
18	218	1	.59	271	14	10	378	3	3.1
19	229	1	.62	235	9	5.7	350	2	1.9
20	218	1	.59	201	7	3.8	343	3	2.8
21	218	1	.59	190	8	4.1	393	4	4.2
22	218	1	.59	190	5	2.6	401	3	3.2
23	195	1	.53	201	6	3.3	350	2	1.9
24	277	3	2.2	206	4	2.2	290	2	1.6
25	246	1	.66	206	6	3.3	284	2	1.5
26	201	2	1.1	185	4	2.0	284	3	2.3
27	195	1	.53	180	5	2.4	271	2	1.5
28	212	1	.57	195	4	2.1	549	12	18
29	229	1	.62	252	6	4.1	913	16	39
30	577	13	20	371	5	5.0	577	7	11
31	315	2	1.7	322	6	5.2	--	--	--
TOTAL	10424	--	115.37	8567	--	181.36	16189	--	460.6

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	308992
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	22779.84

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC.							
21...	1855	14900	4.0	282	11300	38	51

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.							
21...	62	71	78	86	93	97	100

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

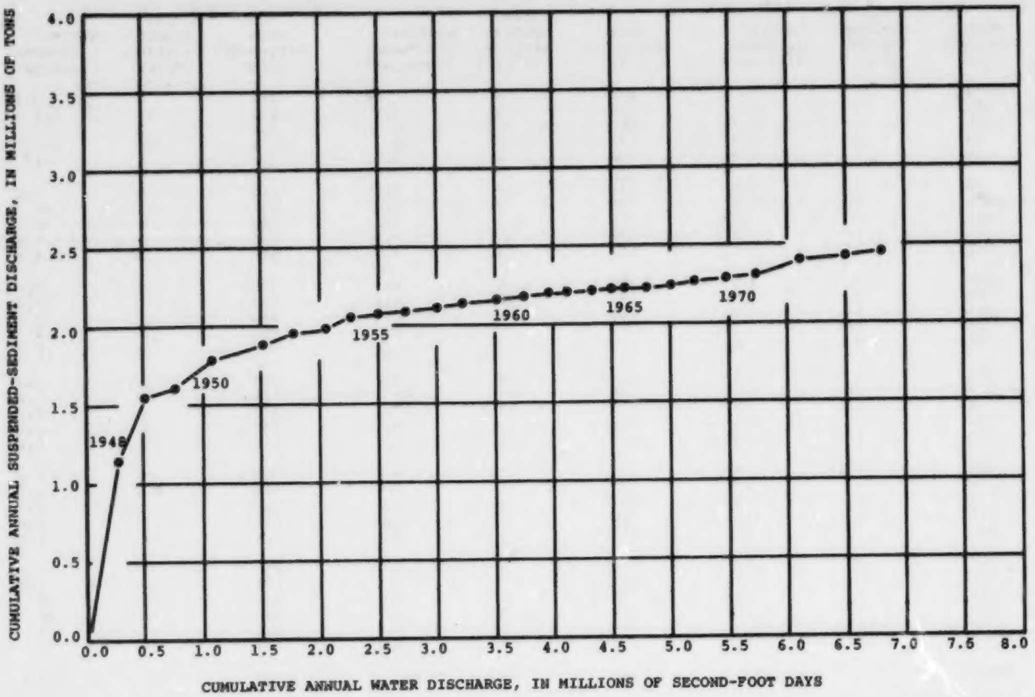


Figure 2.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Schuylkill River at Berne, Pa.

Table 6.--Suspended sediment concentration-duration table, Schuylkill River at Berne

Period	Mean daily concentration, in milligrams per litre, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1974	92	72	35	18	11	8	7	6	4	4	3	2	1	1
1960-74	99	52	25	15	9	7	5	4	3	3	2	1	1	1

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, 1.0 mi (1.6 km) downstream from gaging station at Rebers Bridge, 1.0 mi (1.6 km) east of Blue Marsh, 3 mi (4.8 km) north of Sinking Spring, and 5.5 mi (8.8 km) northwest of Reading.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.
Water temperatures: October 1968 to September 1974.
Sediment records: May 1973 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 520 mg/l Apr. 4; minimum daily, 2 mg/l July 10, 13.
Sediment discharges: Maximum daily, 2,490 tons (2,260 t) Dec. 21; minimum daily, 0.45 tons (0.41 t) July 13.

Period of record:
Sediment concentrations: Maximum daily, 1,400 mg/l June 22, 1973; minimum daily, 2 mg/l July 10, 13, 1974.
Sediment discharges: Maximum daily, 8,350 tons (7,580 t) June 22, 1973; minimum daily, 0.45 tons (0.41 t) July 13, 1974.

REMARKS.--Chemical analyses for this station on page 132. Temperature recorder located at gaging station 1.0 mi (1.6 km) upstream from sampling site.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	152	5	2.1	187	15	7.6	105	5	1.4
2	157	5	2.1	167	4	1.8	99	4	1.1
3	194	6	3.1	147	5	2.0	96	4	1.0
4	157	3	1.3	138	3	1.1	99	5	1.3
5	147	2	.79	135	2	.73	198	32	17
6	138	2	.75	132	2	.71	284	36	28
7	132	2	.71	125	2	.68	194	7	3.7
8	125	2	.68	122	3	.99	170	4	1.8
9	119	3	.96	122	4	1.3	493	180	240
10	125	28	9.5	119	4	1.3	554	84	126
11	125	20	6.8	113	4	1.2	406	36	39
12	122	4	1.3	108	4	1.2	326	15	13
13	119	3	.96	108	5	1.5	292	10	7.9
14	119	3	.96	108	3	.87	425	33	38
15	113	3	.92	105	3	.85	322	12	10
16	113	6	1.8	108	3	.87	296	8	6.4
17	108	4	1.2	110	2	.59	292	6	4.7
18	102	6	1.7	105	3	.85	270	8	5.8
19	102	35	9.6	108	3	.87	250	9	6.1
20	99	20	5.3	102	4	1.1	234	12	7.6
21	99	14	3.7	99	6	1.6	2560	360	2490
22	105	9	2.6	99	5	1.3	1640	100	443
23	105	7	2.0	99	5	1.3	969	28	73
24	105	6	1.7	102	4	1.1	711	10	19
25	102	3	.83	116	3	.94	561	6	9.1
26	99	5	1.3	110	4	1.2	783	23	49
27	99	4	1.1	105	4	1.1	1620	130	569
28	96	2	.52	125	6	2.0	1050	60	170
29	170	60	28	132	6	2.1	815	33	73
30	466	470	591	110	8	2.4	681	20	37
31	201	40	22	--	--	--	565	15	24
TOTAL	4215	--	707.28	3566	--	43.15	17380	--	4515.9

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	534	13	19	449	15	18	315	9	7.7
2	458	12	15	426	18	21	286	8	6.2
3	431	12	14	397	14	15	279	15	11
4	534	24	35	370	20	20	269	14	10
5	450	20	24	339	16	15	263	10	7.1
6	424	17	19	343	14	13	250	9	6.1
7	412	13	14	318	12	10	248	25	17
8	381	18	19	301	15	12	242	30	20
9	367	25	25	295	18	14	357	74	71
10	363	45	44	284	16	12	379	33	34
11	409	100	110	270	12	8.7	345	10	9.3
12	427	120	138	262	11	7.8	339	7	6.4
13	352	35	33	260	9	6.3	313	7	5.9
14	364	24	24	266	8	5.7	294	8	6.4
15	329	18	16	246	8	5.3	285	6	4.6
16	329	17	15	227	9	5.5	318	14	12
17	365	22	22	228	8	4.9	383	21	22
18	329	22	20	217	8	4.7	301	6	4.9
19	316	34	29	243	23	15	289	4	3.1
20	323	24	21	357	89	86	276	5	3.7
21	592	140	224	264	10	7.1	448	60	73
22	864	68	159	349	75	71	512	75	104
23	802	55	119	411	45	50	437	13	15
24	740	34	68	342	24	22	412	9	10
25	646	28	49	341	12	11	370	9	9.0
26	581	26	41	313	15	13	350	7	6.6
27	624	41	69	293	11	8.7	320	4	3.5
28	558	36	54	292	10	7.9	294	5	4.0
29	609	42	69	--	--	--	279	7	5.3
30	526	30	43	--	--	--	359	20	19
31	493	16	21	--	--	--	1000	310	837
TOTAL	14932	--	1572	8703	--	490.6	10812	--	1354.8

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	734	60	119	223	7	4.2	200	20	11
2	657	35	62	215	5	2.9	181	18	8.8
3	561	20	30	255	5	3.4	174	28	13
4	1310	520	1840	234	4	2.5	156	10	4.2
5	1300	220	772	215	6	3.5	145	5	2.0
6	1040	100	281	208	10	5.6	139	8	3.0
7	818	44	97	219	7	4.1	136	8	2.9
8	688	50	93	199	6	3.2	136	6	2.2
9	772	45	94	209	8	4.5	139	6	2.3
10	639	30	52	275	14	10	136	6	2.2
11	555	23	34	217	6	3.5	136	7	2.6
12	506	24	33	335	120	109	119	6	1.9
13	528	46	66	782	200	422	116	4	1.3
14	485	48	63	414	26	29	113	8	2.4
15	480	35	45	359	12	12	113	10	3.1
16	420	20	23	304	12	9.8	136	7	2.6
17	387	14	15	275	10	7.4	159	12	5.2
18	369	14	14	254	7	4.8	129	10	3.5
19	355	19	18	237	5	3.2	113	9	2.7
20	342	15	14	220	6	3.6	107	8	2.3
21	320	9	7.8	211	9	5.1	116	9	2.8
22	310	10	8.4	204	10	5.5	116	9	2.8
23	320	11	9.5	218	20	12	188	34	17
24	292	8	6.3	202	16	8.7	208	50	28
25	275	6	4.5	184	9	4.5	174	54	25
26	265	6	4.3	177	7	3.3	159	42	18
27	254	7	4.8	170	5	2.3	132	27	9.6
28	247	6	4.0	177	6	2.9	129	28	9.8
29	237	6	3.8	170	6	2.8	184	65	32
30	227	6	3.7	174	8	3.8	142	48	18
31	--	--	--	159	7	3.0	--	--	--
TOTAL	15693	--	3822.1	7695	--	702.1	4331	--	242.2

DELAWARE RIVER BASIN

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCENTRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCENTRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCENTRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	177	54	26	77	16	3.3	74	15	3.0
2	145	22	8.6	69	12	2.2	277	120	90
3	129	12	4.2	196	160	85	139	58	22
4	116	10	3.1	166	46	21	208	85	48
5	113	11	3.4	119	25	8.0	129	35	12
6	116	14	4.4	95	20	5.1	107	18	5.2
7	110	10	3.0	87	18	4.2	219	100	59
8	104	6	1.7	79	28	6.0	174	63	30
9	92	3	.75	84	26	5.9	136	62	23
10	92	2	.50	132	100	36	119	40	13
11	95	5	1.3	84	21	4.8	104	23	6.5
12	87	4	.94	77	17	3.5	98	15	4.0
13	84	2	.45	72	16	3.1	113	20	6.1
14	84	5	1.1	72	11	2.1	315	140	119
15	82	6	1.3	67	11	2.0	177	48	23
16	84	12	2.7	64	8	1.4	149	24	9.7
17	79	10	2.1	101	83	23	129	20	7.0
18	77	7	1.5	104	56	16	119	17	5.5
19	77	8	1.7	79	30	6.4	110	16	4.8
20	77	20	4.2	67	15	2.7	104	12	3.4
21	74	15	3.0	64	8	1.4	101	10	2.7
22	72	9	1.7	62	7	1.2	107	7	2.0
23	72	5	.97	69	9	1.7	92	7	1.7
24	95	30	7.7	67	8	1.4	87	8	1.9
25	95	32	8.2	64	7	1.2	84	7	1.6
26	84	23	5.2	62	8	1.3	82	6	1.3
27	84	14	3.2	62	6	1.0	79	6	1.3
28	79	9	1.9	64	6	1.0	129	50	17
29	84	12	2.7	67	8	1.4	252	110	75
30	134	50	18	82	16	3.5	156	23	9.7
31	92	24	6.0	87	14	3.3	--	--	--
TOTAL	2985	--	131.51	2641	--	260.1	4169	--	608.4

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 97122
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 14450.14

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN. 23...	1215	780	60	126
FEB. 19...	1345	215	39	23
SEP. 04...	1320	223	63	38

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.

LOCATION.--Lat 40°01'41", long 75°13'44", Philadelphia County, at Green Lane Avenue Bridge, 5.5 mi (8.8 km) upstream from gaging station at Fairmount Dam, and 14.2 mi (22.3 km) upstream from mouth.

DRAINAGE AREA.--1,830 mi^2 (4,740 km^2), at Fairmount Dam.

PERIOD OF RECORD.--Water temperatures: November 1956 to September 1959.
Sediment records: November 1947 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 1,040 mg/l Dec. 21; minimum daily, 2 mg/l Feb. 12, 14.
Sediment discharges: Maximum daily, 123,000 tons (112,000 t) Dec. 21; minimum daily, 9.1 tons (8.3 t) Feb. 14.

Period of record:
Sediment concentrations: Maximum daily, 4,910 mg/l Dec. 30, 1948; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 650,000 tons (590,000 t) (estimated) Aug. 19, 1955; minimum daily, less than 0.05 tons (0.04 t) Sept. 2, 1966.

REMARKS.--Mean discharges given are for 01474500 Schuylkill River at Philadelphia (Fairmount Dam). Daily records do not include water diverted by the city of Philadelphia for municipal water supply. Unpublished records of temperature of sediment samples available in the district office at Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY
1	1570	18	76	2280	31	191	1260	8	27
2	1610	25	109	1910	37	191	1030	7	19
3	1980	25	134	1660	38	170	929	5	13
4	1530	19	78	1420	25	96	862	5	12
5	1310	19	67	1280	16	55	1750	20	95
6	1140	18	55	1240	16	54	6610	48	857
7	1050	16	45	1130	18	55	4520	35	427
8	997	16	43	1080	12	35	3220	16	139
9	1010	17	46	1040	10	28	5290	82	1170
10	968	15	39	972	9	24	9620	196	5190
11	999	14	38	963	14	36	6630	73	1310
12	996	14	38	909	15	37	4970	22	295
13	916	14	35	915	9	22	3970	26	279
14	907	13	32	904	12	29	6080	42	689
15	858	14	32	845	9	21	5610	35	530
16	804	15	33	840	11	25	4210	16	182
17	783	16	34	764	13	27	3850	10	104
18	740	15	30	789	18	38	3400	5	46
19	738	13	26	785	14	30	2820	5	38
20	739	14	28	791	12	26	2850	10	77
21	728	11	22	763	13	27	37400	1040	123000
22	723	10	20	734	9	18	26400	475	35000
23	726	12	24	708	13	25	13600	140	5140
24	742	14	28	713	11	21	9190	60	1490
25	708	15	29	756	10	20	6800	37	679
26	684	20	37	831	12	27	10800	75	2190
27	668	14	25	897	14	34	22000	204	13400
28	630	15	26	1130	17	52	12000	65	2110
29	1730	31	145	1920	24	124	9190	36	893
30	3760	40	406	1940	13	68	7530	24	488
31	3760	70	711	--	--	--	6220	20	336
TOTAL	36584	--	2491	32909	--	1606	240611	--	197025

DELAWARE RIVER BASIN

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5830	17	268	4080	9	99	3110	8	67
2	5180	12	168	3580	7	68	3210	9	78
3	4460	10	120	3370	7	64	2900	12	94
4	6170	22	366	3010	11	89	2760	7	52
5	5380	10	145	2570	6	42	2610	8	56
6	4240	11	126	2240	5	30	2470	7	47
7	3910	20	211	2290	3	19	2330	10	63
8	3630	14	137	2290	5	31	2200	22	131
9	3210	9	78	2030	3	16	3110	23	193
10	3260	10	88	1810	4	20	5370	22	319
11	5260	43	611	1770	3	14	5130	14	194
12	6380	38	655	1730	2	9.3	4330	15	175
13	4300	17	197	1650	3	13	3860	11	115
14	3160	8	68	1690	2	9.1	3370	7	64
15	3010	7	57	1620	5	22	3000	6	49
16	3150	5	43	1880	3	15	3230	15	131
17	3100	7	59	1760	6	29	6290	55	934
18	3050	5	41	1760	5	24	4640	25	313
19	3000	7	57	1800	4	19	3550	10	96
20	3000	7	57	2500	11	74	3250	9	79
21	4000	110	1190	3120	9	76	5170	65	907
22	5700	135	2080	2510	10	68	9370	160	4050
23	9000	65	1580	4060	47	515	5890	35	557
24	8100	23	503	4760	41	527	5010	20	271
25	7200	15	292	3950	16	171	4400	10	119
26	6000	17	275	3600	10	97	3760	9	91
27	6200	18	301	3110	5	42	3410	17	157
28	6000	12	194	3010	9	73	3060	7	58
29	6500	22	386	--	--	--	2940	12	95
30	5900	16	255	--	--	--	5000	271	3660
31	5300	14	200	--	--	--	18600	590	29600
TOTAL	152580	--	10808	73550	--	2275.4	137330	--	42815

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11000	130	3860	2060	21	117	1700	19	87
2	8310	37	830	1920	20	104	2120	23	132
3	7320	26	514	2090	22	124	2050	14	77
4	8130	83	1820	2410	18	117	1680	14	64
5	12500	209	7000	2060	16	89	1450	16	63
6	12200	129	4390	1870	15	76	1300	14	49
7	9150	77	1900	1950	12	63	1200	15	49
8	7530	41	834	1900	17	87	1180	8	25
9	13700	356	13200	1860	17	85	1200	5	16
10	9870	70	1870	2990	20	161	1140	4	12
11	7080	26	497	2930	18	142	1090	5	15
12	5990	18	291	2780	35	263	996	7	19
13	7690	86	1790	11500	150	4660	965	6	16
14	8540	47	1080	7040	60	1140	933	10	25
15	8660	78	1820	4780	25	323	883	10	24
16	7850	53	1120	3860	23	240	2010	140	760
17	5970	40	645	3200	25	216	2990	120	969
18	5120	24	332	2810	20	152	1640	80	354
19	4630	20	250	2610	26	183	1230	27	90
20	4460	24	289	2320	26	163	1010	10	27
21	4000	17	184	2100	25	142	1150	75	233
22	3640	18	177	1960	29	153	1520	20	82
23	3640	12	118	2630	25	178	2260	35	214
24	3330	14	126	2560	23	159	2650	43	308
25	2920	12	95	2080	18	101	2470	25	167
26	2650	19	136	1820	20	98	1850	22	110
27	2490	15	101	1700	18	83	1540	20	83
28	2330	16	101	1670	20	90	1480	10	40
29	2270	16	98	1640	19	84	1880	5	25
30	2200	20	119	1700	23	106	1770	9	43
31	--	--	--	1680	19	86	--	--	--
TOTAL	195170	--	45587	86480	--	9785	47337	--	4178

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1650	11	49	965	14	36	1120	28	85
2	2200	20	123	777	16	34	1360	55	202
3	1890	12	61	1030	19	53	2700	70	510
4	1500	10	41	1810	52	254	5530	105	1570
5	1480	10	40	3950	90	960	3400	52	477
6	1320	10	36	1920	35	181	2150	44	255
7	1250	11	37	1220	15	49	3260	35	308
8	1100	9	27	981	18	48	3450	25	233
9	954	10	26	917	15	37	2410	16	104
10	858	20	46	1390	23	86	1890	15	77
11	790	16	34	1070	23	66	1610	18	78
12	812	14	31	927	16	40	1550	17	71
13	777	25	52	763	15	31	1410	16	61
14	729	17	33	653	12	21	2270	25	153
15	615	13	22	632	10	17	2970	22	176
16	586	15	24	557	11	17	2060	21	117
17	554	15	22	547	15	22	1670	21	95
18	507	14	19	2460	30	199	1440	20	78
19	553	16	24	1560	13	55	1280	19	66
20	523	15	21	1000	16	43	1170	18	57
21	540	14	20	743	18	36	1160	16	50
22	503	13	18	626	10	17	1310	19	67
23	461	11	14	2980	421	5510	1280	16	55
24	787	15	32	1160	22	69	1090	14	41
25	936	18	45	870	13	31	957	13	34
26	822	13	29	663	10	18	859	16	37
27	687	12	22	974	21	55	793	18	39
28	610	16	26	777	13	27	1200	25	81
29	550	12	18	701	12	23	8540	60	1380
30	1030	16	44	961	10	26	2610	25	176
31	1080	20	58	1110	9	27	--	--	--
TOTAL	28734	--	1094	36694	--	8088	64499	--	6733

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1132398
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 332485.4

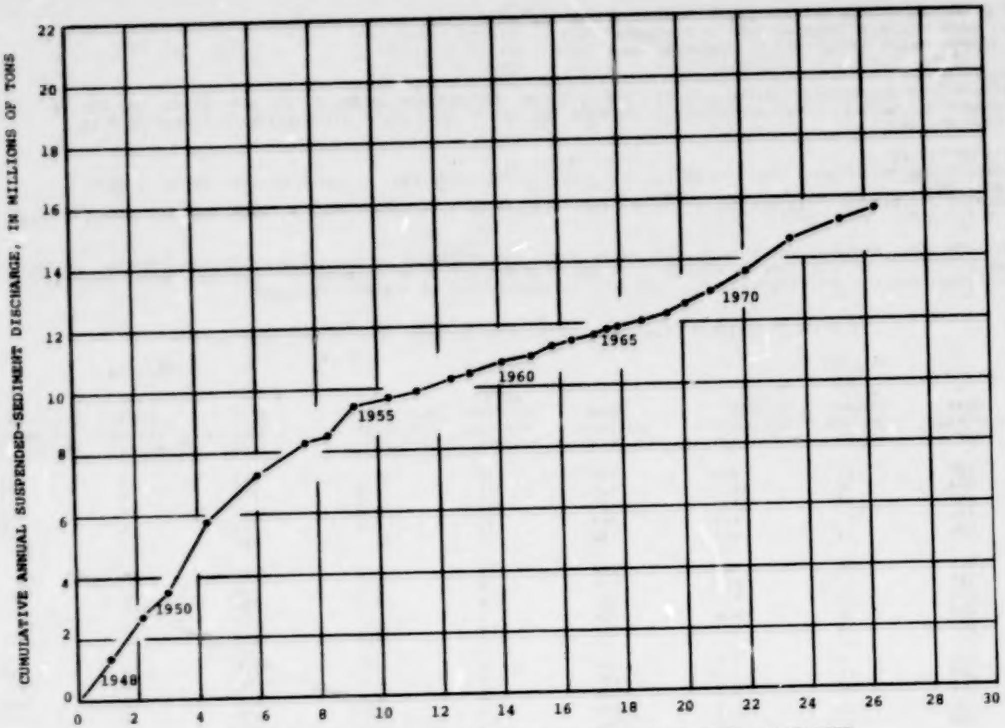


Figure 3.--Double mass accumulation of annual suspended sediment discharge versus annual water diccharge, Schuylkill River at Manayunk, Philadelphia, Pa.

Table 7.--Suspended sediment concentration-duration table, Schuylkill River at Manayunk, Philadelphia

Period	Mean daily concentration, in milligrams per litre, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1974	410	220	105	60	29	23	19	17	15	13	11	7	5	3
1960-74	430	269	121	55	27	20	17	14	12	11	9	7	6	4

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.

LOCATION.--Lat 39°52'09", long 75°35'35", Delaware County, at gaging station located on left bank 27 ft (8 m) upstream from Pennsylvania Railroad Bridge at Chadds Ford, and 1,200 ft (366 m) downstream from highway bridge on U.S. Highway 1. Sediment samples collected at Pennsylvania Railroad Bridge.

DRAINAGE AREA.--287 mi^2 (743 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1974.
Water temperatures: October 1964 to September 1974.
Sediment records: July 1963 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 800 mg/l Dec. 21; minimum daily, 4 mg/l Nov. 20-22, 24, Dec. 4.
Sediment discharges: Maximum daily, 11,400 tons (10,300 t) Dec. 21; minimum daily, 1.5 tons (1.4 t) Nov. 20, 24.

Period of record:
Sediment concentrations: Maximum daily, 2,000 mg/l (estimated) Feb. 8, 1965; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 20,000 tons (18,100 t) (estimated) Feb. 8, 1965; minimum daily, 0 tons (0 t) on Oct. 7, 8, 1967.

REMARKS.--Chemical analyses for this station on page 171. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the district office at Harrisburg. Sediment data from 01481500 Brandywine Creek at Wilmington, Del., are used in computation of sediment records.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	183	18	8.9	226	18	11	157	7	3.0
2	206	30	17	194	15	7.9	150	6	2.4
3	252	40	27	179	13	6.3	147	6	2.4
4	194	17	8.9	168	15	6.8	147	4	1.6
5	176	18	8.6	172	25	12	625	90	152
6	161	15	6.5	172	10	4.6	725	90	176
7	157	13	5.5	168	8	3.6	283	20	15
8	157	15	6.4	161	8	3.5	238	12	7.5
9	157	16	6.8	164	7	3.1	695	75	141
10	172	16	7.4	157	7	3.0	640	65	112
11	172	12	5.6	154	6	2.5	311	8	6.7
12	157	11	4.7	157	7	3.0	252	6	4.1
13	157	14	5.9	154	7	2.9	234	5	3.2
14	154	13	5.4	157	8	3.4	475	30	38
15	150	13	5.3	150	8	3.2	311	10	8.4
16	150	11	4.5	150	11	4.5	256	7	4.8
17	143	11	4.2	140	8	3.0	269	10	7.3
18	143	10	3.9	140	7	2.6	234	12	7.6
19	143	10	3.9	143	5	1.9	222	11	6.6
20	147	10	4.0	143	4	1.5	260	15	11
21	147	10	4.0	147	4	1.6	5260	800	11400
22	143	9	3.5	147	4	1.6	1470	145	576
23	143	8	3.1	147	5	2.0	605	30	49
24	143	7	2.7	143	4	1.5	490	25	33
25	140	6	2.3	150	5	2.0	420	20	23
26	143	6	2.3	150	6	2.4	1500	110	446
27	140	6	2.3	150	7	2.8	2830	210	1600
28	140	7	2.6	206	17	9.5	770	50	104
29	575	85	132	252	20	14	585	25	39
30	695	135	253	179	12	5.8	525	20	28
31	260	35	25	--	--	--	485	16	21
TOTAL	6000	--	583.2	4920	--	133.5	21563	--	15029.6

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	550	17	25	465	10	13	440	13	15
2	465	12	15	465	8	10	400	15	16
3	495	13	17	485	7	9.2	390	8	8.4
4	775	40	84	450	7	8.5	371	7	7.0
5	570	15	23	415	8	9.0	356	6	5.8
6	500	12	16	390	8	8.4	337	6	5.5
7	475	12	15	410	15	17	333	5	4.5
8	465	16	20	415	11	12	328	5	4.4
9	450	45	55	380	9	9.2	371	9	9.0
10	480	46	60	361	8	7.8	435	10	12
11	860	60	139	385	10	10	366	8	7.9
12	895	38	92	361	8	7.8	337	8	7.3
13	560	11	17	380	8	8.2	328	7	6.2
14	480	10	13	405	10	11	314	7	5.9
15	490	10	13	376	7	7.1	309	6	5.0
16	500	9	12	347	6	5.6	366	17	17
17	560	10	15	356	7	6.7	575	40	62
18	515	9	13	347	6	5.6	380	12	12
19	475	8	10	361	5	4.9	352	11	10
20	500	10	14	480	20	26	337	10	9.1
21	1000	160	432	395	8	8.5	705	60	114
22	1060	115	329	425	10	11	760	95	195
23	660	60	107	460	20	25	450	24	29
24	590	35	56	366	8	7.9	415	16	18
25	550	20	30	376	6	6.1	380	12	12
26	525	16	23	366	6	5.9	371	9	9.0
27	605	19	31	347	6	5.6	361	8	7.8
28	550	16	24	366	8	7.9	352	9	8.6
29	530	15	21	--	--	--	366	9	8.9
30	500	14	19	--	--	--	930	95	239
31	480	14	18	--	--	--	2160	300	1750
TOTAL	18110	--	1758	11135	--	274.9	14675	--	2621.3

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	870	52	122	415	11	12	395	10	11
2	695	22	41	390	14	15	371	10	10
3	635	20	34	510	30	41	376	10	10
4	790	70	149	460	20	25	319	10	8.6
5	870	60	141	405	15	16	291	12	9.4
6	780	55	116	405	12	13	273	12	8.8
7	580	10	16	410	13	14	268	12	8.7
8	565	15	23	385	10	10	286	15	12
9	1730	220	1030	385	8	8.3	291	15	12
10	885	63	151	590	40	64	277	14	10
11	675	30	55	480	15	19	259	13	9.1
12	625	21	35	750	100	203	241	12	7.8
13	1330	120	431	1770	380	1820	241	12	7.8
14	1220	145	478	570	45	69	241	15	9.8
15	780	30	63	475	15	19	259	16	11
16	670	15	27	430	18	21	356	35	34
17	610	16	26	405	16	17	314	29	25
18	580	17	27	405	13	14	246	23	15
19	565	17	26	376	12	12	228	21	13
20	555	15	22	361	12	12	224	20	12
21	525	14	20	342	11	10	356	85	82
22	510	15	21	337	9	8.2	640	240	415
23	595	16	26	490	30	40	905	280	684
24	530	11	16	455	25	31	540	120	175
25	480	9	12	371	20	20	570	85	131
26	460	9	11	337	20	18	440	32	38
27	450	8	9.7	328	15	13	385	25	26
28	440	9	11	328	14	12	425	50	57
29	440	10	12	319	15	13	615	70	116
30	430	10	12	333	18	16	380	25	26
31	--	--	--	314	15	13	--	--	--
TOTAL	20870	--	3163.7	14331	--	2618.5	11012	--	1995.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	347	24	22	189	12	6.1	164	15	6.6
2	309	27	23	202	14	7.6	177	14	6.7
3	291	20	16	505	60	82	228	18	11
4	273	19	14	309	40	33	725	210	411
5	352	25	24	314	42	36	255	52	36
6	337	20	18	232	21	13	286	30	17
7	273	15	11	210	16	9.1	545	65	96
8	246	13	8.6	202	17	9.3	328	39	35
9	232	12	7.5	198	15	8.0	246	30	20
10	224	11	6.7	210	16	9.1	219	27	16
11	210	9	5.1	181	16	7.8	198	22	12
12	206	8	4.4	172	16	7.4	202	20	11
13	198	7	3.7	164	15	6.6	202	19	10
14	198	8	4.3	164	11	4.9	241	24	16
15	202	10	5.5	152	7	2.9	202	20	11
16	202	10	5.5	145	8	3.1	177	18	8.6
17	181	10	4.9	237	50	32	164	16	7.1
18	181	9	4.4	615	210	349	160	12	5.2
19	219	10	5.9	210	43	24	152	10	4.1
20	193	8	4.2	177	20	9.6	152	12	4.9
21	172	7	3.3	164	16	7.1	160	11	4.8
22	164	7	3.1	160	12	5.2	202	14	7.6
23	164	6	2.7	181	12	5.9	160	11	4.8
24	202	15	8.2	181	15	7.3	141	8	3.0
25	228	18	11	380	70	72	141	6	2.3
26	198	15	8.0	189	32	16	141	6	2.3
27	189	13	6.6	177	22	11	137	5	1.8
28	185	11	5.5	156	17	7.2	356	65	62
29	181	10	4.9	156	18	7.6	910	235	577
30	366	33	33	181	20	9.8	300	40	32
31	219	18	11	185	17	8.5	--	--	--
TOTAL	7142	--	296.0	6898	--	818.1	7591	--	1442.8

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 144247
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 30734.6

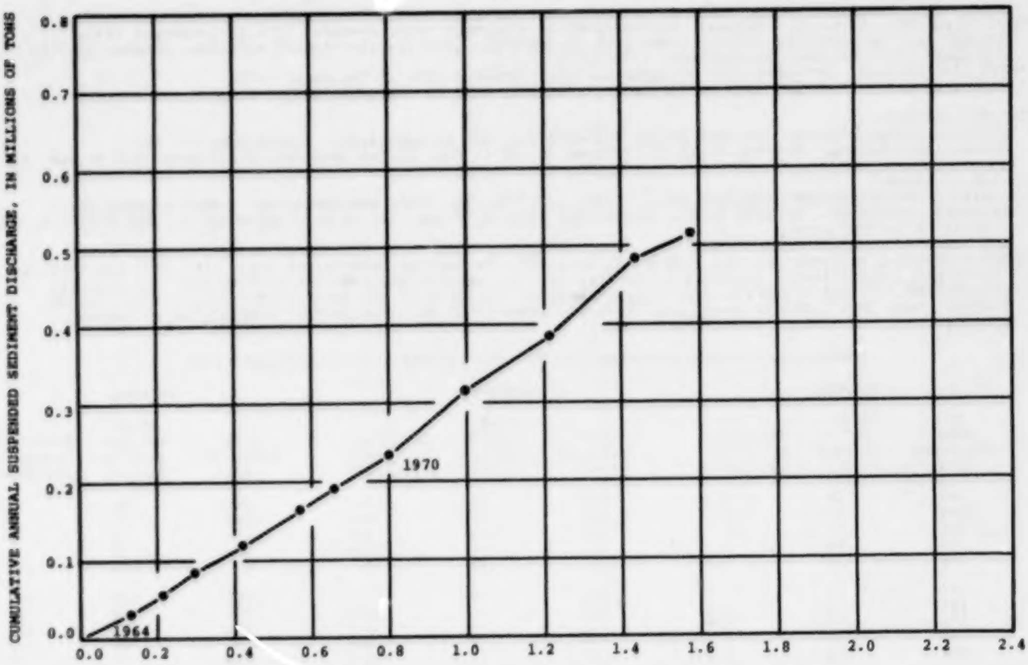


Figure 4.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Brandywine Creek at Chadds Ford, Pa.

Table 8.--Suspended sediment concentration-duration table, Brandywine Creek at Chadds Ford

Period	Mean daily concentration, in milligrams per litre, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1974	280	220	105	60	30	20	17	15	13	11	8	7	6	4
1964-74	474	287	123	53	28	20	16	13	11	9	7	5	4	2

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, at gaging station on right bank 0.2 mi (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 mi (6.8 km) upstream from mouth. Sediment samples are collected at the Henry Clay Bridge.

DRAINAGE AREA.--314 mi^2 (813 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, November 1951 to September 1952, October 1956 to September 1961, October 1961 to September 1962 (partial-record station), October 1963 to September 1972, February to September 1974.
Water temperatures: November 1956 to September 1961, October 1970 to September 1973.
Sediment records: December 1946 to September 1961, July 1962 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 725 mg/l Dec. 21; minimum daily, 3 mg/l Jan. 19, 20.
Sediment discharges: Maximum daily, 9,570 tons (8,682 t) Dec. 21; minimum daily, 2.1 tons (1.9 t) Dec. 4.

Period of record:
Sediment concentrations: Maximum daily, 1,700 mg/l Feb. 14, 1966; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 35,700 tons (32,400 t) Feb. 14, 1971; minimum daily, less than 0.50 tons (0.45 t) on many days.

REMARKS.--Chemical analyses for this station on page 179. Streamflow records for water year 1973 available in the Maryland and Delaware State Annual Report, Part 1. Unpublished chemical-quality data and specific conductance, pH, and temperature of sediment samples available in the district office at Parkville, Md. Sediment data from 01481000 Brandywine Creek at Chadds Ford, Pa., are used in computation of sediment records.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	199	12	6.4	245	25	17	167	15	6.8
2	209	24	14	217	14	8.2	161	11	4.8
3	292	35	28	196	15	7.9	154	9	3.7
4	199	14	7.5	182	11	5.4	154	5	2.1
5	176	11	5.2	184	15	7.5	656	145	257
6	172	10	4.6	188	8	4.1	1040	120	337
7	171	9	4.2	177	6	2.9	376	30	30
8	171	7	3.2	167	6	2.7	281	17	13
9	173	10	4.7	170	7	3.2	756	75	153
10	184	12	6.0	164	7	3.1	846	65	148
11	180	12	5.8	161	7	3.0	406	17	19
12	177	12	5.7	161	7	3.0	310	13	11
13	178	13	6.2	160	6	2.6	294	15	12
14	177	12	5.7	161	6	2.6	644	45	78
15	171	11	5.1	155	8	3.3	419	23	26
16	170	8	3.7	155	10	4.2	324	15	13
17	171	10	4.6	146	11	4.3	337	11	10
18	171	11	5.1	148	10	4.0	290	9	7.0
19	169	11	5.0	153	10	4.1	265	7	5.0
20	171	12	5.5	153	10	4.1	400	20	22
21	164	11	4.9	154	9	3.7	4890	725	9570
22	163	11	4.8	158	6	2.6	2090	225	1270
23	163	10	4.4	157	6	2.5	705	40	76
24	165	10	4.5	157	8	3.4	571	25	39
25	161	7	3.0	161	9	3.9	489	22	29
26	167	7	3.2	163	11	4.8	1230	95	315
27	166	7	3.1	153	11	4.5	3260	195	1720
28	167	9	4.1	213	14	8.1	879	45	107
29	648	125	219	319	20	17	652	10	18
30	898	130	315	204	16	8.8	584	8	13
31	302	30	24	--	--	--	531	7	10
TOTAL	6845	--	726.2	5282	--	156.5	24161	--	14325.4

DELAWARE RIVER BASIN

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	608	11	18	521	7	9.8	477	14	18
2	515	9	13	522	6	8.5	450	12	15
3	517	12	17	556	6	9.0	429	10	12
4	840	25	57	507	6	8.2	420	10	11
5	631	14	24	477	5	6.4	404	11	12
6	535	11	16	455	5	6.1	381	9	9.3
7	510	11	15	476	9	12	383	9	9.3
8	489	9	12	487	7	9.2	378	9	9.2
9	479	30	39	446	6	7.2	415	8	9.0
10	516	32	45	431	5	5.8	477	16	21
11	956	40	103	454	7	8.6	416	12	13
12	1100	35	104	430	6	7.0	382	8	8.3
13	616	18	30	447	5	6.0	369	7	7.0
14	509	11	15	476	7	9.0	355	6	5.8
15	527	8	11	445	6	7.2	350	6	5.7
16	531	7	10	418	5	5.6	466	28	35
17	594	6	9.6	426	5	5.8	668	45	81
18	550	4	5.9	420	4	4.5	435	25	29
19	495	3	4.0	420	5	5.7	395	13	14
20	521	3	4.2	542	10	15	380	10	10
21	976	150	395	458	7	8.7	806	80	174
22	1450	135	529	474	14	18	1070	85	246
23	755	50	102	520	24	34	545	32	47
24	670	23	42	408	9	9.9	495	28	37
25	623	15	25	411	7	7.8	455	20	25
26	586	10	16	406	6	6.6	437	13	15
27	668	20	36	390	5	5.3	505	12	16
28	626	12	20	412	10	11	411	10	11
29	597	10	16	--	--	--	417	9	10
30	559	9	14	--	--	--	1060	70	200
31	532	9	13	--	--	--	2730	425	3130
TOTAL	20081	--	1760.7	12835	--	257.9	17361	--	4245.6

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1080	80	233	476	12	15	430	20	23
2	861	30	70	447	10	12	425	17	20
3	813	20	44	570	40	62	432	19	22
4	897	60	145	539	25	36	364	18	18
5	1070	50	144	470	18	23	327	18	16
6	967	45	117	469	13	16	311	17	14
7	767	18	37	481	15	19	297	15	12
8	745	13	26	441	14	17	313	16	14
9	2150	280	1630	443	14	17	320	18	16
10	1060	60	172	630	50	85	306	18	15
11	876	30	71	569	18	28	281	13	9.9
12	818	23	51	856	85	196	258	11	7.7
13	1320	130	463	2120	205	1170	263	15	11
14	1530	150	620	647	35	61	254	14	9.6
15	808	55	120	531	15	22	272	17	12
16	725	20	39	485	17	22	419	45	51
17	668	18	32	451	15	18	376	35	36
18	639	17	29	452	14	17	275	25	19
19	623	17	29	423	12	14	249	20	13
20	614	16	27	405	10	11	245	18	12
21	585	16	25	386	9	9.4	349	40	38
22	572	15	23	380	9	9.2	661	110	196
23	654	18	32	577	30	47	947	390	997
24	602	14	23	550	25	37	604	160	261
25	547	12	18	430	20	23	540	75	109
26	521	14	20	387	20	21	494	30	40
27	511	15	21	375	18	18	421	23	26
28	505	14	19	375	18	18	437	40	47
29	501	12	16	366	16	16	641	65	112
30	491	12	16	383	20	21	433	25	29
31	--	--	--	364	18	18	--	--	--
TOTAL	24520	--	4312	16478	--	2098.6	11944	--	2206.2

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	387	20	21	199	12	6.4	177	12	5.7
2	346	25	23	194	10	5.2	182	14	6.9
3	318	18	15	508	40	55	265	37	26
4	298	20	16	309	27	23	733	115	228
5	352	45	43	386	45	47	295	50	40
6	404	35	38	251	19	13	225	30	18
7	303	25	20	233	15	9.4	595	70	112
8	265	20	14	217	15	8.8	393	35	37
9	247	18	12	210	14	7.9	275	27	20
10	237	15	9.6	220	19	11	237	13	8.3
11	222	14	8.4	192	18	9.3	221	11	6.6
12	217	14	8.2	180	15	7.3	230	13	8.1
13	206	12	6.7	173	14	6.5	245	15	9.9
14	204	12	6.6	172	14	6.5	291	18	14
15	202	10	5.5	164	10	4.4	229	17	11
16	215	10	5.8	155	9	3.8	193	15	7.8
17	187	8	4.0	168	30	14	176	16	7.6
18	186	8	4.0	648	85	149	176	14	6.7
19	213	12	6.9	237	38	24	170	12	5.5
20	202	14	7.6	189	25	13	167	12	5.4
21	179	12	5.8	173	19	8.9	173	12	5.6
22	175	12	5.7	166	15	6.7	225	16	9.7
23	173	10	4.7	414	45	50	179	14	6.8
24	227	18	11	184	20	9.9	158	14	6.0
25	252	17	12	433	40	47	158	10	4.3
26	209	17	9.6	257	30	21	158	9	3.8
27	202	17	9.3	218	25	15	155	6	2.5
28	197	15	8.0	177	20	9.6	327	115	102
29	190	15	7.7	170	18	8.3	1020	230	633
30	400	35	38	188	21	11	363	70	69
31	246	20	13	197	15	8.0	--	--	--
TOTAL	7661	--	400.1	7582	--	619.9	8391	--	1427.2

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 163141
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 32536.3

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAR.								
31...	0700	3660	4.0	704	6960	39	55	74
APR.								
09...	0700	2020	8.0	421	2300	35	49	64
SEP.								
29...	0700	1930	19.0	397	2070	39	50	62

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR.							
31...	87	97	98	99	99	100	--
APR.							
09...	71	88	89	90	91	94	100
SEP.							
29...	70	75	76	77	83	95	100

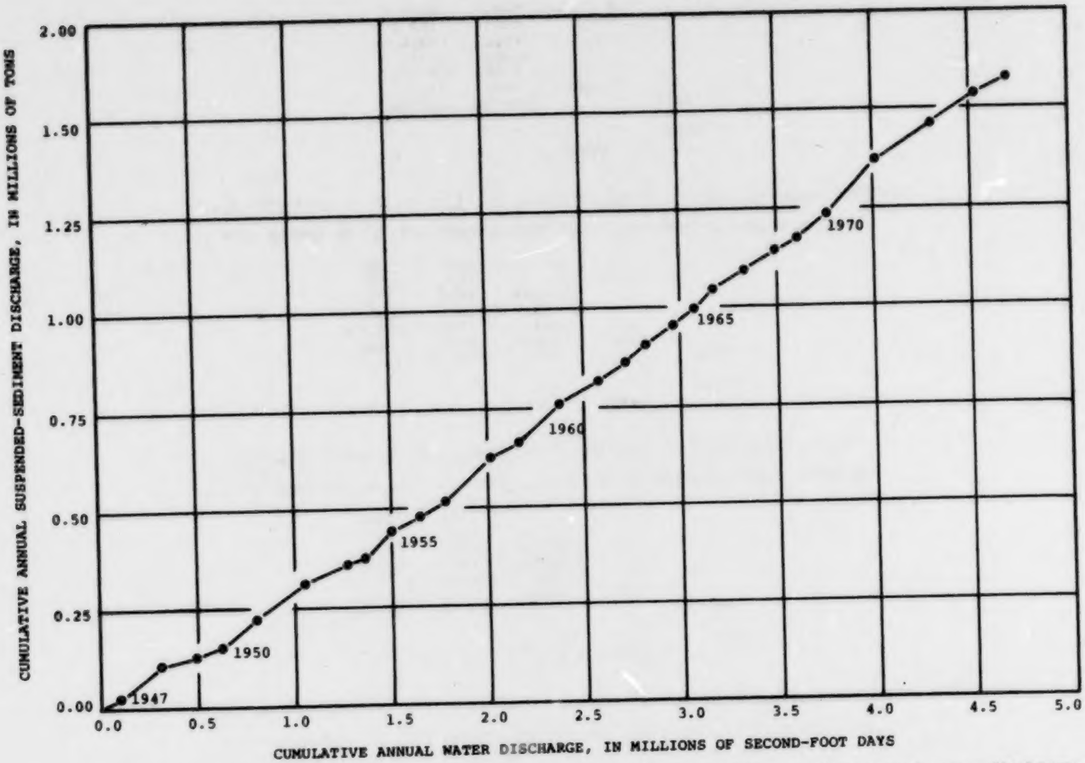


Figure 5.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Brandywine Creek at Wilmington, Del.

Table 9.--Suspended sediment concentration-duration table, Brandywine Creek at Wilmington, Del.

Period	Mean daily concentration, in milligrams per litre, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1974	270	190	105	56	31	21	17	15	13	11	9	7	6	4
1947-74*	481	301	128	59	28	19	15	13	11	8	7	5	4	3

*Excludes 1962-63.

ANAYLSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DELAWARE RIVER BASIN

01438395 SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.			
16...	1600	0	2

01438900 DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 49)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.				
16...	1430	3.7	1	6

01439500 BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.				
16...	1230	44	0	2

01439680 LITTLE BUSH KILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.				
16...	1315	10	0	1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DELAWARE RIVER BASIN

01451695 JORDAN CREEK NEAR PLEASANT CORNERS, PA. (LAT 40 39 55 LONG 075 41 19)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1130	60	19	3.1
FEB.				
20...	0945	33	18	1.6

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 41 33)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1100	55	62	9.2
FEB.				
20...	0930	12	32	1.0

01451738 LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1400	45	69	8.4
FEB.				
20...	1130	10	14	.38

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA. (LAT 40 40 35 LONG 075 38 25)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1245	24	61	4.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DELAWARE RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA. (LAT 40 39 42 LONG 075 37 38)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1310	246	34	23
FEB.				
20...	1030	--	47	--
APR.				
16...	1330	--	14	--

01470800 TULPEHOCKEN CREEK AT BERNVILLE, PA. (LAT 40 35 10 LONG 075 53 40)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
23...	1115	335	113	102
SEP.				
04...	1140	96	62	16

01470825 NORTHKILL CREEK AT BERNVILLE, PA. (LAT 40 25 50 LONG 076 06 51)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
23...	1100	200	25	13
SEP.				
04...	1230	40	21	2.3

01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'50", long 77°08'00", Steuben County, 800 ft (244 m) upstream from gaging station on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi (10 km) upstream from Canisteo River.

DRAINAGE AREA.--771 mi^2 (2,000 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1964 to October 1965 (partial-record station), September 1973 to September 1974.
Water temperatures: August to September 1974.
Sediment records: August to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 95 mg/l Sept. 4; minimum daily, 3 mg/l Aug. 11, 14, Sept. 18.
Sediment discharges: Maximum daily, 229 tons (208 t) Sept. 4; minimum daily, 0.6 tons (0.5 t) Aug. 14.

Period of record:
Sediment concentrations: Maximum daily, 95 mg/l Sept. 4, 1974; minimum daily, 3 mg/l Aug. 11, 14, Sept. 18, 1974.
Sediment discharges: Maximum daily, 229 tons (208 t) Sept. 4, 1974; minimum daily, 0.6 tons (0.5 t) Aug. 14, 1974.

REMARKS.--Chemical analyses for this station on page 242.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5500	--	--	113	9	2.7	113	12	3.7
2	1500	--	--	95	10	2.6	154	16	6.7
3	967	--	--	88	11	2.6	440	50	59
4	677	--	--	125	9	3.0	891	95	229
5	523	--	--	165	7	3.1	336	21	19
6	440	--	--	128	9	3.1	214	14	8.1
7	355	--	--	105	7	2.0	165	14	6.2
8	295	--	--	90	5	1.2	137	12	4.4
9	255	--	--	88	6	1.4	119	10	3.2
10	226	--	--	93	4	1.0	103	11	3.1
11	206	--	--	85	3	.69	95	8	2.1
12	182	--	--	77	4	.83	88	11	2.6
13	165	--	--	77	5	1.0	83	10	2.2
14	151	--	--	70	3	.57	144	13	5.1
15	172	--	--	62	6	1.0	134	16	5.8
16	175	--	--	59	5	.80	98	13	3.4
17	137	--	--	61	6	.99	83	6	1.3
18	122	--	--	65	8	1.4	79	3	.64
19	119	--	--	68	6	1.1	90	6	1.5
20	108	--	--	65	10	1.8	90	7	1.7
21	103	--	--	61	12	2.0	137	17	6.3
22	95	--	--	56	11	1.7	703	80	152
23	90	--	--	52	9	1.3	331	24	21
24	128	--	--	49	7	.93	230	13	8.1
25	179	--	--	49	10	1.3	186	10	5.0
26	144	--	--	49	10	1.3	165	7	3.1
27	122	--	--	46	7	.87	147	6	2.4
28	110	--	--	56	12	1.8	125	6	2.0
29	103	--	--	66	30	5.3	116	6	1.9
30	210	--	--	108	8	2.3	151	5	2.0
31	154	--	--	168	13	5.9	--	--	--
TOTAL	13753	--	--	2541	--	57.58	5947	--	572.54

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	31921
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	630.12

01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
SEP.				
05...	1445	178	5	2.4

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.				
09...	1825	182	3	1.5
NOV.				
06...	1600	405	10	11
DEC.				
11...	1550	1630	39	172
JAN.				
08...	1450	440	10	12
MAR.				
14...	1400	E1160	22	54
APR.				
03...	1710	3280	35	310
MAY				
02...	1430	604	10	16
JUNE				
13...	1430	172	4	1.9
JULY				
18...	1245	119	1	.32
AUG.				
15...	1355	63	5	.85

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.

LOCATION.--Lat 41°01'53", long 76°25'13", Columbia County, on right bank at upstream end of culvert on State Highway 487 at Light Street.

DRAINAGE AREA.--1.72 mi^2 (4.45 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to May 1974 (discontinued).
Sediment records: October 1971 to May 1974 (discontinued).

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 3,200 mg/l Dec. 20; minimum, 3 mg/l Jan. 8.
Sediment discharges: Maximum, 70 tons (64 t) Dec. 9, Mar. 9; minimum, 0.01 tons (0.01 t) on many days.

Period of record:
Sediment concentrations: Maximum, 10,100 mg/l June 22, 1972; minimum, 1 mg/l on several days during October to December 1971.
Sediment discharges: Maximum, 7,010 tons (6,360 t) June 22, 1972; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 248 . Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.69	12	.02	.63	15	.03	.51	15	.02
2	.82	15	.03	.51	15	.02	.45	15	.02
3	.75	8	.02	.45	10	.01	.45	15	.02
4	1.0	444	1.2	.45	10	.01	.45	15	.02
5	1.1	15	.04	.45	10	.01	3.5	212	2.0
6	.69	6	.01	.39	10	.01	2.5	92	.62
7	.69	5	.01	.33	10	.01	1.2	15	.05
8	.63	5	.01	.39	10	.01	1.0	10	.03
9	.89	75	.18	.33	10	.01	9.4	2760	70
10	.88	30	.07	.33	15	.01	4.1	20	.22
11	.69	15	.03	.28	12	.01	2.7	12	.09
12	.63	15	.03	.28	12	.01	1.9	10	.05
13	.63	10	.02	.28	15	.01	1.7	15	.07
14	.69	15	.03	.28	15	.01	1.7	15	.07
15	.57	10	.02	.47	236	.30	1.2	12	.04
16	.51	10	.01	.88	29	.07	1.0	8	.02
17	.51	20	.03	.63	15	.03	.96	5	.01
18	.45	15	.02	.63	15	.03	.95	11	.03
19	.45	15	.02	.57	15	.02	.95	7	.02
20	.39	15	.02	.51	15	.02	7.4	3200	64
21	.33	8	.01	.51	15	.02	12	864	28
22	.33	8	.01	.51	15	.02	5.0	23	.31
23	.33	10	.01	.45	15	.02	3.5	15	.14
24	.33	10	.01	.85	183	.42	2.7	15	.11
25	.33	15	.01	1.4	164	.62	2.3	12	.07
26	.28	10	.01	.69	25	.05	9.2	298	7.4
27	.28	10	.01	.57	20	.03	8.6	250	5.8
28	.28	12	.01	1.3	60	.21	7.4	150	3.0
29	1.4	344	1.3	.75	25	.05	4.6	12	.15
30	1.3	31	.11	.57	15	.02	3.2	10	.09
31	.69	15	.03	--	--	--	2.7	10	.07
TOTAL	19.54	--	3.34	16.67	--	2.10	105.22	--	182.54

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.6	10	.07	2.0	9	.05	.95	10	.03
2	1.7	8	.04	1.7	10	.05	.95	9	.02
3	1.7	10	.05	1.5	11	.04	.95	8	.02
4	1.5	8	.03	1.3	10	.04	.95	7	.02
5	1.3	5	.02	1.0	12	.03	1.0	10	.03
6	1.4	5	.02	1.0	8	.02	.88	10	.02
7	1.2	5	.02	1.1	7	.02	.88	8	.02
8	.95	3	.01	.95	7	.02	3.0	543	4.4
9	1.0	5	.01	.88	7	.02	11	2360	70
10	1.3	7	.02	.75	7	.01	5.4	47	.69
11	1.9	20	.10	.51	7	.01	3.0	20	.16
12	1.5	10	.04	.39	7	.01	2.2	15	.09
13	1.0	9	.02	.28	10	.01	1.5	10	.04
14	.88	9	.02	.24	7	0	1.3	9	.03
15	.95	9	.02	.69	8	.01	1.2	8	.03
16	2.1	90	.51	.69	5	.01	2.7	165	1.2
17	2.6	15	.11	.82	5	.01	1.9	14	.07
18	1.5	10	.04	.88	6	.01	1.2	8	.03
19	1.5	15	.06	.95	15	.04	1.2	7	.02
20	1.3	12	.04	.95	6	.02	1.0	6	.02
21	8.4	617	14	.82	6	.01	6.2	1250	21
22	7.9	61	1.3	3.9	1420	15	2.6	12	.08
23	6.0	20	.32	1.4	26	.10	2.0	8	.04
24	4.6	15	.19	.95	8	.02	1.7	7	.03
25	3.7	20	.20	.95	9	.02	1.3	6	.02
26	3.2	15	.13	.88	12	.03	1.2	6	.02
27	4.9	20	.26	.82	9	.02	1.2	6	.02
28	5.2	855	12	.82	5	.01	1.1	6	.02
29	4.5	35	.43	--	--	--	1.1	6	.02
30	3.2	10	.09	--	--	--	3.8	136	1.4
31	2.7	10	.07	--	--	--	11	222	6.6
TOTAL	84.10	--	30.24	29.12	--	15.64	76.36	--	106.19

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10	344	9.3	.82	30	.07			
2	6.1	59	.97	.57	8	.01			
3	3.8	20	.21	.95	20	.05			
4	4.3	112	1.3	.69	7	.01			
5	4.4	118	1.4	.57	6	.01			
6	2.7	10	.07	.57	8	.01			
7	2.2	8	.05	.57	7	.01			
8	2.7	26	.19	.57	7	.01			
9	7.5	207	4.2	1.2	62	.20			
10	3.1	10	.08	.63	9	.02			
11	2.3	8	.05	.57	8	.01			
12	2.0	8	.04	5.8	1400	22			
13	1.9	7	.04	2.3	29	.18			
14	1.8	10	.05	1.3	10	.04			
15	1.9	8	.04	1.1	9	.03			
16	1.4	6	.02	.88	8	.02			
17	1.2	8	.03	1.2	494	1.6			
18	1.1	8	.02	.88	13	.03			
19	1.3	11	.04	.69	8	.01			
20	1.0	8	.02	.57	6	.01			
21	.88	7	.02	.57	6	.01			
22	.88	7	.02	.78	361	.76			
23	.95	8	.02	1.0	26	.07			
24	.82	7	.02	.69	9	.02			
25	.82	7	.02	.57	10	.02			
26	.75	7	.01	.51	7	.01			
27	.69	7	.01	.45	6	.01			
28	.63	7	.01	.45	6	.01			
29	.63	7	.01	.45	6	.01			
30	.69	10	.02	.45	6	.01			
31	--	--	--	.52	36	.05			
TOTAL	70.44	--	18.28	28.87	--	25.31			

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 430.40
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 383.64

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.

LOCATION.--Lat 41°01'55", long 76°25'39", Columbia County, on left bank at upstream end of culvert on Papermill Road at Light Street.

DRAINAGE AREA.--1.99 mi^2 (5.15 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to May 1974 (discontinued).
Sediment records: October 1971 to May 1974 (discontinued).

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 3,970 mg/l Dec. 20; minimum, 3 mg/l May 16, 21.
Sediment discharges: Maximum, 180 tons (163 t) Dec. 9; minimum, 0 tons (0 t) Oct. 22, 28.

Period of record:
Sediment concentrations: Maximum, 17,400 mg/l May 30, 1972; minimum, 1 mg/l May 6-8, 1973.
Sediment discharges: Maximum, 12,000 tons (10,900 t) June 22, 1972; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 249. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.0	20	.05	.93	6	.02	.71	9	.02
2	1.2	5	.02	.81	6	.01	.64	9	.02
3	1.0	4	.01	.71	7	.01	.64	9	.02
4	1.6	1110	4.8	.69	8	.01	.64	9	.02
5	1.6	83	.36	.62	9	.02	6.2	717	12
6	.90	9	.02	.54	6	.01	2.8	108	.82
7	.84	8	.02	.47	6	.01	1.4	25	.09
8	.84	8	.02	.54	6	.01	1.1	15	.04
9	1.4	145	.55	.47	6	.01	17	3920	180
10	1.0	15	.04	.45	5	.01	4.4	20	.24
11	.90	10	.02	.42	5	.01	2.6	12	.08
12	.84	10	.02	.40	5	.01	1.9	10	.05
13	.84	8	.02	.40	6	.01	1.8	15	.07
14	1.0	12	.03	.40	8	.01	1.8	30	.15
15	.90	8	.02	.86	818	1.9	1.3	15	.05
16	.80	8	.02	1.0	20	.05	1.1	10	.03
17	.70	8	.02	.69	7	.01	1.6	6	.03
18	.65	8	.01	.64	7	.01	1.5	25	.10
19	.60	8	.01	.59	7	.01	1.3	8	.03
20	.55	8	.01	.54	7	.01	14	3970	150
21	.50	4	.01	.54	7	.01	23	1930	120
22	.46	4	0	.59	7	.01	5.9	15	.24
23	.44	5	.01	.50	7	.01	3.8	12	.12
24	.42	8	.01	1.1	539	1.6	2.8	10	.08
25	.40	6	.01	1.9	351	1.8	2.2	8	.05
26	.40	5	.01	1.0	25	.07	15	617	25
27	.40	5	.01	.87	20	.05	12	339	11
28	.40	4	0	2.6	97	.68	11	269	8.0
29	3.0	1090	8.8	1.1	15	.04	4.6	12	.15
30	1.6	51	.22	1.0	9	.02	3.2	7	.06
31	.93	8	.02	--	--	--	2.6	8	.06
TOTAL	28.11	--	15.17	23.37	--	6.44	150.53	--	508.62

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.5	9	.06	2.0	10	.05	1.1	8	.02
2	1.8	7	.03	1.9	9	.05	1.0	8	.02
3	1.8	15	.07	1.6	8	.03	1.0	7	.02
4	1.7	6	.03	1.4	8	.03	1.0	6	.02
5	1.6	6	.03	1.4	12	.05	1.2	10	.03
6	1.5	5	.02	1.3	8	.03	1.0	8	.02
7	1.5	5	.02	1.1	7	.02	.93	7	.02
8	1.3	7	.02	1.1	7	.02	3.4	610	5.6
9	1.6	5	.02	.93	7	.02	14	2380	90
10	1.3	5	.02	.80	7	.02	11	269	8.0
11	2.4	20	.13	.60	7	.01	4.6	15	.19
12	1.8	15	.07	.45	8	.01	3.4	8	.07
13	1.4	10	.04	.35	8	.01	2.2	7	.04
14	1.4	8	.03	.30	7	.01	1.9	7	.04
15	1.4	8	.03	.75	8	.02	1.7	7	.03
16	2.8	91	.69	.75	4	.01	3.6	195	1.9
17	3.0	15	.12	.81	5	.01	2.5	18	.12
18	1.7	10	.05	.75	6	.01	1.6	7	.03
19	2.0	15	.08	.87	15	.04	1.6	6	.03
20	1.5	10	.04	.87	10	.02	1.3	5	.02
21	15	1040	42	.75	8	.02	7.9	1500	32
22	10	96	2.6	4.9	1510	20	2.7	14	.10
23	6.4	20	.35	1.5	30	.12	2.0	8	.04
24	4.6	16	.20	1.0	12	.03	1.7	7	.03
25	3.7	20	.20	1.0	10	.03	1.3	5	.02
26	3.2	15	.13	.87	12	.03	1.3	5	.02
27	5.0	20	.27	.81	8	.02	1.2	8	.03
28	7.2	1230	24	.87	5	.01	1.1	6	.02
29	4.9	39	.52	--	--	--	1.1	5	.01
30	3.2	10	.09	--	--	--	5.1	160	2.2
31	2.6	10	.07	--	--	--	13	228	8.0
TOTAL	101.8	--	72.03	31.73	--	20.73	98.43	--	148.69

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	309	10	1.0	37	.10			
2	7.2	72	1.4	.75	8	.02			
3	4.2	7	.08	1.1	27	.08			
4	4.8	139	1.8	.93	8	.02			
5	5.2	157	2.2	.81	6	.01			
6	3.0	20	.16	.81	7	.02			
7	2.4	15	.10	.75	7	.01			
8	2.7	27	.20	.75	7	.01			
9	9.2	209	5.2	1.4	40	.15			
10	3.2	12	.10	1.0	10	.03			
11	2.2	8	.05	.87	7	.02			
12	2.0	6	.03	7.0	1530	29			
13	1.9	6	.03	2.9	29	.23			
14	2.0	10	.05	1.3	10	.04			
15	2.0	10	.05	1.0	6	.02			
16	1.4	7	.03	.93	3	.01			
17	1.2	8	.03	1.3	513	1.8			
18	1.1	7	.02	.93	16	.04			
19	1.4	12	.05	.75	6	.01			
20	1.1	7	.02	.69	4	.01			
21	1.0	7	.02	.69	3	.01			
22	1.0	8	.02	.93	207	.52			
23	1.1	7	.02	1.1	34	.10			
24	1.0	6	.02	.75	6	.01			
25	1.0	6	.02	.69	6	.01			
26	.87	6	.01	.64	5	.01			
27	.81	6	.01	.59	4	.01			
28	.81	6	.01	.59	4	.01			
29	.75	5	.01	.64	4	.01			
30	.82	18	.04	.59	4	.01			
31	--	--	--	.72	41	.08			
TOTAL	79.36	--	21.78	34.90	--	32.41			

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	548.23
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	825.87

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.
(National Stream-Quality Accounting Network)

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, at gaging station at Mill Street Bridge on State Highway 54 at Danville, 0.8 mi (1.3 km) upstream from Mahoning Creek.

DRAINAGE AREA.--11,200 mi^2 (29,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1945 to June 1953, October 1956 to June 1973, March to September 1974.
Water temperatures: October 1945 to June 1953, October 1956 to September 1970.
Sediment records: October 1961 to September 1962 (partial-record station), October 1963 to September 1964 (partial-record station), October 1965 to September 1966 (partial-record station), April to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 416 mg/l Apr. 17; minimum daily, 4 mg/l June 13, July 15.
Sediment discharges: Maximum daily, 66,300 tons (60,200 t) Apr. 17; minimum daily, 42 tons (38 t) Aug. 27.

Period of record:
Sediment concentrations: Maximum daily 416 mg/l Apr. 17, 1974; minimum daily, 4 mg/l June 13, July 15, 1974.
Sediment discharges: Maximum daily, 66,300 tons (60,200 t) Apr. 17; minimum daily, 42 tons (38 t) Aug. 27, 1974.

REMARKS.--Chemical analyses for this station on page 250. Operated as part of the USGS-EPA surveillance network. No sediment records available October through March.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22900	16	989	11900	28	900	10100	19	518
2	30700	21	1740	13000	32	1120	11600	27	846
3	48700	66	9640	12500	29	979	10400	22	618
4	78000	287	61800	13000	24	842	9040	20	488
5	81700	242	53200	12300	23	764	8050	18	391
6	83800	180	40700	11900	23	739	7260	15	294
7	70800	148	28300	11400	19	585	6630	13	233
8	56800	105	16100	10800	16	467	6090	13	214
9	49200	57	7570	10500	17	482	5670	11	168
10	47600	40	5140	11100	16	480	5310	9	129
11	42600	29	3340	11700	16	505	5260	12	170
12	40300	33	3590	13800	18	671	5060	6	82
13	47900	146	18900	21500	38	2210	4870	4	53
14	54300	55	8060	33600	86	7800	4740	6	77
15	53400	17	2450	40500	100	10900	4800	8	104
16	65100	215	39100	33000	73	6500	6040	20	326
17	59100	416	66300	25400	48	3290	6530	33	582
18	46200	150	18700	21200	27	1550	6970	28	527
19	36400	72	7080	19000	25	1280	8500	37	849
20	30600	51	4210	22700	55	3370	7920	32	684
21	27300	38	2800	19600	52	2750	6890	26	484
22	24000	38	2460	16000	42	1810	6260	27	456
23	20900	38	2140	14200	31	1190	6330	25	427
24	19000	34	1740	12900	22	766	6090	25	411
25	17900	30	1450	12000	18	583	5550	18	270
26	17300	27	1260	11500	19	590	6120	21	347
27	16200	26	1140	11200	21	635	6340	24	411
28	14600	24	946	10800	25	729	5740	19	294
29	13300	23	826	10200	23	633	6070	18	295
30	12200	26	856	9540	20	515	7850	30	636
31	--	--	--	9310	17	427	--	--	--
TOTAL	1228800	--	412527	498050	--	56062	204080	--	11384

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15000	170	7100	5040	35	476	4550	25	307
2	19100	87	4490	4110	20	222	7570	91	2010
3	16400	40	1770	4590	12	149	10400	120	3380
4	12400	46	1540	5880	15	238	13800	139	5180
5	9640	30	781	5290	28	400	13500	86	3130
6	10100	20	545	4680	23	291	11700	57	1800
7	15800	48	2050	4050	26	284	13300	61	2190
8	14300	38	1470	3670	20	198	11800	45	1430
9	11300	24	732	3540	19	182	9310	35	880
10	9510	16	411	3620	19	186	7650	28	578
11	8400	12	272	3340	22	198	6600	23	410
12	7130	12	231	3060	15	124	5860	22	348
13	6120	6	99	2850	9	69	5440	20	294
14	5470	5	74	2700	14	102	6720	45	816
15	5110	4	55	2560	13	90	6680	31	559
16	4840	7	91	2500	10	68	5810	22	345
17	4480	5	60	2580	17	118	5060	18	246
18	4300	5	58	2550	23	158	5330	16	230
19	4210	5	57	2410	16	104	5730	22	340
20	4260	5	58	2250	12	73	5140	18	250
21	3950	5	53	2160	10	58	5060	16	219
22	3600	13	126	2060	9	50	6610	24	428
23	3300	19	169	2030	8	44	8390	32	725
24	3230	14	122	2100	8	45	7730	29	605
25	3360	8	73	2270	8	49	8990	26	631
26	3400	8	73	2080	10	56	9680	32	836
27	3640	9	88	1960	8	42	8080	22	480
28	3680	12	119	2600	10	70	6990	16	302
29	3720	14	141	3330	15	135	7960	21	451
30	5350	16	231	3400	11	101	8760	26	615
31	5780	28	437	4840	18	235	--	--	--
TOTAL	230880	--	23576	100100	--	4615	240200	--	30015

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	6148970
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	538179

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
APR.								
05...	1120	81400	9.0	245	53800	--	48	53
17...	0725	62200	10.0	362	60800	--	44	63
JULY								
01...	1520	16200	--	124	5420	40	56	70

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR.								
05...	68	79	87	91	94	95	97	100
17...	77	93	98	99	100	--	--	--
JULY								
01...	83	92	97	99	100	--	--	--

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.

LOCATION.--Lat 41°34'04", long 77°06'06", Tioga County, on left bank at downstream side of bridge on gravel road between U.S. Route 15 and State Highway 414, 0.7 mi (1.1 km) north of Liberty, and 100 ft (305 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--1.08 mi^2 (2.80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: April 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 3,660 mg/l June 30; minimum, 1 mg/l Oct. 16.
Sediment discharges: Maximum, 55 tons (50 t) Apr. 2; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 3,710 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days each year.
Sediment discharges: Maximum, 351 tons (318 t) Feb. 2, 1973; minimum, 0 tons (0 t) on many days each year.

REMARKS.--Chemical analyses for this station on page 272. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.98	4	.01	2.2	9	.05	1.9	7	.04
2	1.0	5	.01	2.1	8	.05	1.6	7	.03
3	1.3	7	.02	2.2	10	.06	1.6	7	.03
4	1.2	5	.02	1.7	7	.03	1.5	5	.02
5	1.7	8	.04	1.6	6	.03	11	937	28
6	1.0	6	.02	1.5	6	.02	7.4	20	.40
7	.90	5	.01	1.3	5	.02	4.4	10	.12
8	.80	4	.01	1.3	5	.02	3.4	8	.07
9	.70	8	.02	1.2	5	.02	7.5	99	2.0
10	.66	5	.01	1.0	5	.01	6.4	10	.17
11	.62	4	.01	1.0	6	.02	4.4	8	.10
12	.57	2	0	.93	6	.02	3.6	7	.07
13	.72	150	.29	.93	8	.02	3.2	6	.05
14	1.3	27	.09	.89	7	.02	3.4	8	.07
15	.81	4	.01	.97	10	.03	2.9	7	.05
16	.58	1	0	1.5	12	.05	2.3	5	.03
17	.56	2	0	1.1	6	.02	1.9	5	.03
18	.61	2	0	.89	5	.01	1.6	10	.04
19	.57	2	0	.86	5	.01	1.5	5	.02
20	.52	2	0	.82	5	.01	6.9	296	5.5
21	.47	2	0	.78	4	.01	16	203	8.8
22	.45	2	0	.78	4	.01	7.3	8	.16
23	.43	2	0	.75	4	.01	4.9	6	.08
24	.42	2	0	1.1	67	.20	4.2	5	.06
25	.40	2	0	3.0	202	1.6	4.2	5	.06
26	.40	2	0	2.5	6	.04	5.1	73	1.0
27	.40	3	0	2.2	6	.04	8.8	63	1.5
28	.38	3	0	3.2	39	.34	6.2	9	.15
29	7.9	1270	27	2.7	8	.06	4.7	6	.08
30	5.3	25	.36	2.2	7	.04	4.1	5	.06
31	2.6	9	.06	--	--	--	4.0	3	.03
TOTAL	36.25	--	27.99	45.20	--	2.87	147.9	--	48.82

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.0	3	.03	3.2	4	.03	1.5	17	.07
2	3.5	2	.02	3.1	4	.03	1.1	5	.01
3	3.2	2	.02	3.1	3	.03	1.7	114	.52
4	3.2	2	.02	2.9	5	.04	2.2	30	.18
5	3.0	3	.02	2.4	8	.05	3.2	35	.30
6	2.7	3	.02	2.0	8	.04	2.3	8	.05
7	2.5	4	.03	1.7	7	.03	2.2	6	.04
8	2.3	4	.02	1.7	7	.03	4.9	1070	14
9	2.1	4	.02	1.5	10	.04	7.2	154	3.0
10	2.0	5	.03	1.4	8	.03	7.3	15	.30
11	2.0	5	.03	1.4	7	.03	4.9	14	.19
12	1.9	4	.02	1.2	6	.02	3.8	9	.09
13	1.8	4	.02	1.1	5	.01	2.7	7	.05
14	2.2	5	.03	1.0	5	.01	2.2	6	.04
15	1.9	4	.02	1.1	7	.02	2.0	6	.03
16	1.8	4	.02	1.0	6	.02	2.1	7	.04
17	1.8	3	.01	.92	5	.01	1.9	6	.03
18	1.7	3	.01	.85	4	.01	1.6	10	.04
19	1.8	3	.01	.80	4	.01	1.4	7	.03
20	1.9	3	.02	.90	8	.02	1.3	7	.02
21	4.6	161	2.0	1.0	10	.03	2.9	69	.54
22	4.0	8	.09	20	986	53	2.2	10	.06
23	5.5	78	1.2	4.5	20	.24	1.7	8	.04
24	3.9	12	.13	2.0	10	.05	1.7	7	.03
25	3.7	10	.10	1.5	7	.03	1.4	10	.04
26	3.6	8	.08	1.3	12	.04	1.2	6	.02
27	5.2	71	1.0	1.1	10	.03	1.1	5	.01
28	5.3	92	1.3	1.0	6	.02	1.1	5	.01
29	4.7	9	.11	--	--	--	1.3	7	.02
30	3.6	6	.06	--	--	--	1.8	15	.07
31	3.6	5	.05	--	--	--	2.3	20	.12
TOTAL	95.0	--	6.54	65.67	--	53.95	76.2	--	19.99

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.3	15	.09	2.2	15	.09	.68	110	.20
2	8.2	2500	55	1.2	12	.04	.54	45	.07
3	7.3	35	.69	1.1	10	.03	.47	30	.04
4	6.8	35	.64	1.0	8	.02	.42	30	.03
5	5.2	30	.42	.90	7	.02	.38	30	.03
6	4.3	25	.29	1.0	15	.04	.37	20	.02
7	3.9	20	.21	.92	15	.04	.35	20	.02
8	3.9	16	.17	.81	15	.03	.33	18	.02
9	4.2	15	.17	1.0	20	.05	.33	30	.03
10	4.0	15	.16	1.5	15	.06	.41	1400	1.5
11	3.8	15	.15	1.0	10	.03	.48	30	.04
12	3.8	15	.15	3.8	464	4.8	.38	21	.02
13	4.0	15	.16	4.2	25	.28	.33	15	.01
14	4.8	1320	17	3.0	15	.12	.29	12	.01
15	4.8	50	.65	2.3	70	.43	.35	180	.17
16	4.4	30	.36	1.8	70	.34	.73	270	.53
17	4.4	20	.24	1.5	110	.45	.52	15	.02
18	4.3	15	.17	1.2	90	.29	.37	10	.01
19	4.3	15	.17	1.0	90	.24	.30	8	.01
20	4.0	15	.16	.90	90	.22	.27	8	.01
21	3.3	15	.13	.81	70	.15	.51	450	.62
22	3.0	15	.12	.76	70	.14	.44	15	.02
23	2.7	20	.15	.82	70	.15	.31	10	.01
24	1.6	15	.06	.76	45	.09	.24	10	.01
25	1.3	14	.05	.67	160	.29	.27	12	.01
26	1.2	12	.04	.62	70	.12	.34	11	.01
27	1.0	15	.04	.59	45	.07	.29	10	.01
28	.94	14	.04	.57	30	.05	.35	320	.30
29	.86	14	.03	.63	45	.08	.65	1300	2.3
30	1.4	217	.82	.58	45	.07	3.4	3660	34
31	--	--	--	.58	70	.11	--	--	--
TOTAL	110.00	--	78.53	39.72	--	8.94	15.10	--	40.08

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.5	30	.28	.11	4	0	3.5	210	2.0
2	.91	16	.04	.11	4	0	2.7	8	.06
3	.42	12	.01	.12	5	0	3.8	48	.49
4	.32	10	.01	.15	6	0	2.4	5	.03
5	.35	12	.01	.13	5	0	1.1	5	.01
6	.27	10	.01	.12	3	0	.75	4	.01
7	.22	9	.01	.11	3	0	.62	3	.01
8	.20	8	0	.11	3	0	.52	3	0
9	.19	7	0	.11	3	0	.45	3	0
10	.18	6	0	.11	3	0	.39	3	0
11	.16	5	0	.10	2	0	.35	3	0
12	.15	4	0	.11	2	0	.55	112	.17
13	.14	3	0	.11	2	0	.87	52	.12
14	.17	39	.02	.10	2	0	1.0	20	.05
15	.68	58	.11	.09	3	0	.53	5	.01
16	.30	8	.01	.09	3	0	.42	4	0
17	.17	7	0	.14	6	0	.37	3	0
18	.15	7	0	.11	4	0	.42	4	0
19	.15	6	0	.10	3	0	.37	3	0
20	.14	6	0	.08	3	0	.86	329	.76
21	.13	5	0	.08	3	0	5.5	169	2.5
22	.12	5	0	.08	3	0	4.3	4	.05
23	.18	35	.02	.08	6	0	2.5	3	.02
24	.42	40	.05	.09	4	0	1.8	2	.01
25	.33	5	0	.08	3	0	1.5	2	.01
26	.23	4	0	.07	2	0	1.3	2	.01
27	.18	4	0	.08	2	0	1.1	2	.01
28	.15	4	0	.28	67	.05	1.1	4	.01
29	.16	5	0	.23	10	.01	1.2	5	.02
30	.17	5	0	1.1	127	.38	1.0	4	.01
31	.13	4	0	.47	8	.01	--	--	--
TOTAL	10.97	--	.58	4.85	--	.45	43.27	--	6.37

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	690.13
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	295.11

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUNE										
30...	1905	39	19800	2080	7	14	21	30	37	43

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'43", long 77°09'02", Lycoming County, on left bank 100 ft (305 m) upstream from confluence with Steam Valley Run, near intersection of U.S. Route 15 and State Highway 284.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: March 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 2,520 mg/l Feb. 22; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 2,000 tons (1,814 t) Feb. 22; minimum, 0.01 tons (0.01 t) on many days.

Period of record:
Sediment concentrations: Maximum, 3,200 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days each year.
Sediment discharges: Maximum, 6,300 tons (5,700 t) Feb. 2, 1973; minimum, 0 tons (0 t) on several days during October 1972.

REMARKS.--Chemical analyses for this station on page 275. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.7	1	.03	95	10	2.6	44	6	.71
2	11	1	.03	62	6	1.0	36	6	.58
3	14	2	.08	50	5	.68	32	6	.52
4	11	2	.06	42	4	.45	30	6	.49
5	18	7	.34	37	3	.30	258	2260	1570
6	12	2	.06	32	2	.17	158	150	64
7	10	2	.05	28	2	.15	104	10	2.8
8	9.4	1	.03	24	2	.13	78	4	.84
9	8.7	1	.02	22	2	.12	166	76	34
10	9.0	1	.02	20	2	.11	121	21	6.9
11	8.3	1	.02	18	2	.10	88	5	1.2
12	8.0	1	.02	17	2	.09	73	5	.99
13	7.7	2	.04	16	2	.09	64	5	.86
14	14	57	2.2	14	2	.08	62	5	.84
15	9.4	6	.15	15	10	.41	51	5	.69
16	8.3	5	.11	24	8	.52	39	5	.53
17	7.7	4	.08	17	8	.37	36	5	.49
18	8.0	3	.06	15	5	.20	30	10	.81
19	8.0	3	.06	14	3	.11	35	10	.95
20	7.4	3	.06	12	3	.10	110	673	200
21	7.1	3	.06	11	3	.09	349	424	400
22	6.5	4	.07	11	3	.09	160	15	6.5
23	6.2	4	.07	11	3	.09	109	10	2.9
24	5.9	4	.06	17	32	1.5	81	5	1.1
25	5.9	3	.05	74	120	24	68	5	.92
26	5.6	2	.03	51	30	4.1	105	53	15
27	5.6	2	.03	51	22	3.0	184	60	30
28	5.4	2	.03	78	43	9.1	133	12	4.3
29	216	1270	741	63	12	2.0	107	5	1.4
30	218	68	40	54	6	.87	87	5	1.2
31	100	11	3.0	--	--	--	69	5	.93
TOTAL	781.8	--	787.92	995	--	52.62	3067	--	2352.45

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	63	5	.85	70	2	.38	38	39	4.0
2	52	5	.70	60	2	.32	28	13	.98
3	45	6	.73	52	2	.28	39	15	1.6
4	40	6	.65	42	4	.45	57	15	2.3
5	34	8	.73	35	5	.47	78	100	21
6	27	6	.44	30	5	.41	74	10	2.0
7	23	6	.37	27	5	.36	69	6	1.1
8	20	20	1.1	25	5	.34	128	729	252
9	20	5	.27	22	10	.59	165	224	100
10	23	4	.25	21	9	.51	190	8	4.1
11	21	4	.23	20	8	.43	118	5	1.6
12	19	3	.15	18	7	.34	83	5	1.1
13	18	3	.15	17	6	.28	63	10	1.7
14	20	7	.38	16	6	.26	62	5	.84
15	19	5	.26	17	8	.37	53	5	.72
16	18	5	.24	15	7	.28	53	5	.72
17	17	4	.18	13	6	.21	43	5	.58
18	16	4	.17	12	5	.16	31	15	1.3
19	16	3	.13	12	5	.16	30	15	1.2
20	18	5	.24	13	7	.25	26	10	.70
21	60	343	56	15	8	.32	54	137	20
22	76	50	10	294	2520	2000	48	15	1.9
23	87	114	27	74	15	3.0	35	6	.57
24	69	20	3.7	52	7	.98	33	5	.45
25	60	4	.65	42	7	.79	32	5	.43
26	54	10	1.5	38	7	.72	26	15	1.1
27	93	85	21	36	8	.78	24	5	.32
28	102	158	44	29	7	.55	21	137	7.8
29	112	30	9.1	--	--	--	19	20	1.0
30	97	5	1.3	--	--	--	33	28	2.5
31	84	3	.68	--	--	--	58	32	5.0
TOTAL	1423	--	183.15	1117	--	2013.99	1811	--	440.61

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	58	13	2.0	52	50	7.0	17	113	5.2
2	215	925	537	37	7	.70	10	3	.08
3	212	120	69	40	4	.43	8.2	3	.07
4	229	32	20	35	3	.28	7.6	2	.04
5	149	10	4.0	30	3	.24	7.0	2	.04
6	91	6	1.5	23	3	.19	6.2	2	.03
7	63	6	1.0	15	3	.12	5.7	2	.03
8	54	6	.87	13	3	.11	5.4	2	.03
9	54	5	.73	15	15	.61	5.2	2	.03
10	53	5	.72	22	20	1.2	5.2	90	1.3
11	58	16	2.5	14	6	.23	13	98	3.4
12	67	22	4.0	197	525	279	7.0	5	.09
13	65	8	1.4	201	25	14	5.8	3	.05
14	118	1260	401	129	6	2.1	5.0	3	.04
15	124	299	100	90	5	1.2	5.5	127	1.9
16	83	20	4.5	62	3	.50	18	84	4.1
17	63	3	.51	49	3	.40	9.6	7	.18
18	54	3	.44	38	4	.41	7.3	6	.12
19	55	5	.74	31	4	.33	6.3	6	.10
20	49	5	.66	26	3	.21	5.5	6	.09
21	39	5	.53	23	1	.06	7.0	6	.11
22	39	5	.53	21	2	.11	6.6	6	.11
23	41	5	.55	22	6	.36	5.3	5	.07
24	33	5	.45	18	1	.05	4.6	4	.05
25	29	4	.31	16	1	.04	5.3	22	.31
26	25	4	.27	14	1	.04	7.0	4	.08
27	23	4	.25	12	1	.03	5.5	4	.06
28	21	3	.17	11	1	.03	5.3	50	.72
29	19	3	.15	12	3	.10	14	52	2.0
30	37	224	22	11	3	.09	81	2100	459
31	--	--	--	11	3	.09	--	--	--
TOTAL	2220	--	1177.78	1290	--	310.26	302.1	--	479.43

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	77	173	36	2.8	1	.01	61	524	86
2	18	6	.29	2.7	5	.04	27	20	1.5
3	13	4	.14	3.0	3	.02	77	80	17
4	11	41	1.2	3.9	20	.21	30	12	.97
5	13	10	.35	4.1	3	.03	14	3	.11
6	9.8	2	.05	2.9	2	.02	10	3	.08
7	8.0	2	.04	2.5	1	.01	8.9	3	.07
8	6.8	2	.04	2.3	1	.01	7.8	3	.06
9	6.1	2	.03	2.2	1	.01	6.9	2	.04
10	5.7	2	.03	2.1	1	.01	6.2	2	.03
11	5.1	2	.03	2.0	2	.01	5.8	2	.03
12	4.5	2	.02	1.8	2	.01	6.9	95	1.8
13	4.2	2	.02	1.9	2	.01	13	38	1.3
14	3.9	5	.05	1.8	2	.01	12	37	1.2
15	14	50	1.9	1.6	2	.01	7.6	4	.08
16	6.3	5	.09	1.5	2	.01	6.2	2	.03
17	4.5	2	.02	2.1	25	.14	5.6	1	.02
18	3.9	2	.02	2.6	2	.01	5.9	1	.02
19	4.3	3	.03	1.9	2	.01	5.4	1	.01
20	4.6	2	.02	1.7	2	.01	8.5	150	3.4
21	3.4	1	.01	1.6	2	.01	107	294	85
22	2.9	1	.01	1.5	2	.01	43	8	.93
23	3.3	96	.86	1.5	2	.01	24	2	.13
24	9.9	80	2.1	1.8	2	.01	18	1	.05
25	7.5	5	.10	1.7	2	.01	16	1	.04
26	5.0	3	.04	1.5	2	.01	15	1	.04
27	4.4	2	.02	1.5	2	.01	13	1	.04
28	3.6	2	.02	2.9	36	.28	13	1	.04
29	3.5	26	.25	4.9	23	.30	15	35	1.4
30	4.8	2	.03	21	482	27	14	10	.38
31	3.4	2	.02	7.4	10	.20	--	--	--
TOTAL	275.4	--	43.83	94.7	--	28.45	603.7	--	201.80

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 13980.7
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 8072.29

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR.										
28...	1042	27	860	63	20	33	52	73	92	99
JUNE										
30...	1925	14	8260	312	38	56	76	91	95	100
30...	2025	366	4250	4200	25	42	58	75	84	91

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'39", long 77°09'03", Lycoming County, on right bank at upstream end of bridge on State Highway 284, 500 ft (152 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--5.34 mi^2 (13.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: February 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 5,670 mg/l June 30; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 168 tons (152 t) June 30; minimum, 0.01 tons (0.01 t) on many days.

Period of record:
Sediment concentrations: Maximum, 5,670 mg/l June 30, 1974; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 189 tons (171 t) Aug. 18, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 278. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	1	.01	25	3	.20	15	4	.16
2	3.6	1	.01	20	2	.11	13	3	.11
3	3.3	1	.01	18	2	.10	10	2	.05
4	3.0	1	.01	13	2	.07	8.7	6	.14
5	4.4	1	.01	11	2	.06	26	220	15
6	3.3	1	.01	9.9	6	.16	35	10	.95
7	2.9	1	.01	8.8	5	.12	28	4	.30
8	3.0	1	.01	7.8	10	.21	24	2	.13
9	3.0	1	.01	7.3	2	.04	27	7	.51
10	2.9	1	.01	6.7	2	.04	24	3	.19
11	2.8	1	.01	6.2	2	.03	23	3	.19
12	3.2	1	.01	6.2	2	.03	20	2	.11
13	2.8	1	.01	5.8	3	.05	17	5	.23
14	3.5	1	.01	5.8	2	.03	13	4	.14
15	3.1	1	.01	5.8	2	.03	11	2	.06
16	2.9	1	.01	6.2	1	.02	9.4	2	.05
17	3.2	1	.01	6.2	1	.02	8.5	3	.07
18	3.4	3	.03	5.2	1	.01	8.0	4	.09
19	3.4	5	.05	5.2	10	.14	7.5	3	.06
20	2.9	1	.01	4.8	3	.04	18	79	3.8
21	2.7	1	.01	4.8	1	.01	45	35	4.3
22	2.8	1	.01	4.8	1	.01	35	4	.38
23	3.4	3	.03	4.8	1	.01	24	2	.13
24	3.4	4	.04	5.5	6	.09	19	2	.10
25	3.2	3	.03	13	58	2.0	18	2	.10
26	3.3	3	.03	14	5	.19	18	2	.10
27	3.5	1	.01	18	6	.29	26	4	.28
28	4.1	1	.01	22	5	.30	29	6	.47
29	33	968	86	23	5	.31	24	5	.32
30	45	38	4.6	21	2	.11	21	5	.28
31	29	5	.39	--	--	--	18	4	.19
TOTAL	197.3	--	91.42	315.8	--	4.83	623.1	--	28.99

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15	4	.16	18	3	.15	11	8	.24
2	12	4	.13	16	3	.13	8.7	5	.12
3	10	2	.05	14	3	.11	9.3	4	.10
4	9.4	1	.03	12	6	.19	12	12	.39
5	8.5	1	.02	10	5	.14	22	30	1.8
6	7.8	1	.02	9.0	10	.24	27	5	.36
7	7.3	1	.02	8.0	13	.28	27	5	.36
8	6.8	45	.83	7.3	2	.04	31	61	5.1
9	6.4	2	.03	6.5	2	.04	37	29	2.9
10	6.7	1	.02	6.2	2	.03	40	5	.54
11	6.7	1	.02	6.0	2	.03	37	3	.30
12	6.2	1	.02	5.8	3	.05	31	2	.17
13	5.6	1	.02	5.8	2	.03	25	1	.07
14	6.0	1	.02	5.8	2	.03	20	1	.05
15	5.7	1	.02	6.0	4	.06	15	1	.04
16	5.4	1	.01	5.6	2	.03	13	1	.04
17	5.2	1	.01	5.2	2	.03	11	1	.03
18	5.0	15	.20	4.8	2	.03	9.8	1	.03
19	4.7	15	.19	4.8	1	.01	8.7	1	.02
20	5.2	6	.08	4.8	1	.01	7.3	1	.02
21	12	40	1.3	4.8	2	.03	12	20	.65
22	13	10	.35	27	221	16	9.7	2	.05
23	15	4	.16	24	10	.65	8.8	1	.02
24	14	3	.11	19	3	.15	8.2	1	.02
25	13	3	.11	15	3	.12	8.3	2	.04
26	12	2	.06	13	2	.07	6.8	5	.09
27	17	15	.69	11	2	.06	6.3	3	.05
28	22	53	3.1	10	2	.05	5.8	4	.06
29	27	8	.58	--	--	--	6.1	3	.05
30	25	6	.41	--	--	--	11	12	.36
31	21	4	.23	--	--	--	18	9	.44
TOTAL	336.6	--	9.00	285.4	--	18.79	503.8	--	14.51

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17	10	.46	16	20	.86	6.6	590	11
2	27	58	4.2	17	100	4.6	4.3	4	.05
3	36	39	3.8	17	12	.55	3.8	3	.03
4	51	25	3.4	14	9	.34	3.5	10	.09
5	45	7	.85	13	12	.42	3.2	38	.33
6	32	3	.26	12	10	.32	2.9	5	.04
7	27	3	.22	11	6	.18	2.7	15	.11
8	22	3	.18	9.3	5	.13	2.7	3	.02
9	19	2	.10	9.5	4	.10	2.7	4	.03
10	16	15	.65	10	6	.16	3.1	64	.54
11	16	20	.86	8.6	5	.12	3.4	20	.18
12	18	4	.19	35	532	50	2.6	25	.18
13	21	2	.11	53	40	5.7	2.3	5	.03
14	27	281	20	38	20	2.1	2.1	4	.02
15	31	10	.84	27	12	.87	2.8	250	1.9
16	30	4	.32	22	10	.59	5.9	950	15
17	26	12	.84	17	8	.37	3.2	10	.09
18	21	5	.28	13	4	.14	2.4	10	.06
19	19	4	.21	12	3	.10	2.2	10	.06
20	15	4	.16	9.9	2	.05	2.1	10	.06
21	13	4	.14	9.0	1	.02	2.1	7	.04
22	13	10	.35	8.4	10	.23	2.0	7	.04
23	12	15	.49	8.2	5	.11	1.9	7	.04
24	11	7	.21	7.2	15	.29	1.8	7	.03
25	9.6	3	.08	6.5	4	.07	2.4	140	.91
26	8.6	5	.12	5.9	3	.05	2.3	10	.06
27	8.0	4	.09	5.4	2	.03	1.9	10	.05
28	7.3	4	.08	5.0	6	.08	2.2	370	2.2
29	6.9	3	.06	4.9	3	.04	3.3	94	.84
30	11	232	6.9	4.5	3	.04	11	5670	168
31	--	--	--	4.6	7	.09	--	--	--
TOTAL	616.4	--	46.45	433.9	--	68.75	95.4	--	202.03

SUSQUEHANNA RIVER BASIN

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15	145	5.9	1.3	10	.04	8.4	2130	48
2	11	170	5.0	1.4	10	.04	4.9	37	.49
3	9.6	250	6.5	1.7	10	.05	8.5	125	2.9
4	8.5	150	3.4	1.8	22	.11	5.6	15	.23
5	8.1	96	2.1	1.5	12	.05	3.4	10	.09
6	6.3	20	.34	1.3	9	.03	2.5	7	.05
7	5.2	20	.28	1.2	9	.03	2.2	7	.04
8	4.5	115	1.4	1.2	9	.03	2.0	7	.04
9	4.0	460	5.0	1.2	9	.03	1.8	7	.03
10	4.0	86	.93	1.1	9	.03	1.7	7	.03
11	3.5	120	1.1	1.1	8	.02	1.6	6	.03
12	3.0	17	.14	1.0	9	.02	3.0	1330	11
13	2.6	17	.12	1.1	9	.03	3.5	160	1.5
14	2.5	20	.14	1.0	9	.02	2.9	65	.51
15	3.3	73	.65	.93	9	.02	2.1	10	.06
16	2.2	20	.12	.92	9	.02	1.9	9	.05
17	2.0	12	.06	1.2	10	.03	1.8	9	.04
18	1.9	15	.08	1.1	9	.03	1.8	9	.04
19	1.8	15	.07	.95	10	.03	1.6	9	.04
20	1.7	10	.05	.93	6	.02	3.4	516	4.7
21	1.6	10	.04	.89	6	.01	13	1010	35
22	1.5	10	.04	.86	6	.01	11	38	1.1
23	1.9	93	.48	.88	6	.01	9.0	15	.36
24	3.6	230	2.2	.92	6	.01	8.1	10	.22
25	2.2	20	.12	.85	5	.01	6.8	9	.17
26	1.8	10	.05	.81	4	.01	5.7	8	.12
27	1.7	8	.04	.84	4	.01	4.9	6	.08
28	1.5	8	.03	1.1	10	.03	4.4	5	.06
29	1.8	47	.23	1.2	10	.03	5.3	100	1.4
30	1.8	10	.05	5.2	1310	18	4.7	62	.79
31	1.6	23	.10	1.6	39	.17	--	--	--
TOTAL	121.7	--	36.76	39.08	--	18.98	137.5	--	109.17

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3705.98

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 649.68

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, on right bank just downstream from bridge on State Highway 284, 0.7 mi (1.1 km) upstream from Blacks Creek, 1.7 mi (2.7 km) upstream from confluence with Texas Creek, and 5 mi (8 km) northeast of English Center.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: April 1973 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 2,420 mg/l June 30; minimum, 1 mg/l on several days during October, May, and August.
Sediment discharges: Maximum, 925 tons (839 t) Dec. 5; minimum, 0.01 tons (0.01 t) on several days during August.

Period of record:
Sediment concentrations: Maximum, 2,680 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 9,480 tons (8,600 t) Feb. 2, 1973; minimum, 0.01 tons (0.01 t) on many days.

REMARKS.--Chemical analyses for this station on page 281. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg. Mean concentrations of turbidity and suspended sediment are water-weighted means.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21	3	.17	198	25	13	106	10	2.9
2	22	4	.24	137	15	5.5	89	10	2.4
3	27	4	.29	110	2	.59	78	2	.42
4	22	4	.24	92	3	.75	70	2	.38
5	34	5	.46	80	10	2.2	438	782	925
6	26	5	.35	70	8	1.5	356	20	19
7	21	5	.28	60	6	.97	228	10	6.2
8	19	4	.21	53	3	.43	163	5	2.2
9	18	4	.19	47	2	.25	291	64	50
10	18	4	.19	41	2	.22	238	16	10
11	16	5	.22	36	2	.19	178	4	1.9
12	15	3	.12	34	3	.28	140	3	1.1
13	15	5	.20	32	5	.43	116	3	.94
14	25	20	1.4	30	4	.32	106	2	.57
15	17	15	.69	29	3	.23	85	2	.46
16	15	4	.16	45	3	.36	68	2	.37
17	15	4	.16	33	2	.18	58	2	.31
18	15	4	.16	28	2	.15	52	3	.42
19	15	4	.16	27	2	.15	50	3	.41
20	14	4	.15	24	2	.13	180	358	174
21	13	4	.14	22	2	.12	619	230	384
22	12	4	.13	21	2	.11	299	20	16
23	12	3	.10	20	2	.11	205	10	5.5
24	11	2	.06	27	13	.95	147	5	2.0
25	11	1	.03	132	96	34	116	4	1.3
26	11	2	.06	130	15	5.3	166	45	20
27	11	2	.06	121	10	3.3	321	46	40
28	25	1	.07	169	30	14	256	10	6.9
29	300	968	784	147	10	4.0	205	7	3.9
30	494	104	139	128	7	2.4	163	4	1.8
31	228	25	15	--	--	--	126	4	1.4
TOTAL	1518	--	944.69	2123	--	92.12	5713	--	1681.78

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	104	4	1.1	135	4	1.5	71	25	4.8
2	83	3	.67	112	4	1.2	54	15	2.2
3	73	3	.59	92	4	.99	65	15	2.6
4	66	2	.36	80	4	.86	92	15	3.7
5	59	4	.64	64	4	.69	155	34	14
6	52	3	.42	54	4	.58	147	10	4.0
7	45	3	.36	46	4	.50	140	5	1.9
8	41	5	.55	42	5	.57	205	312	173
9	39	7	.74	38	7	.72	308	120	100
10	44	5	.59	36	10	.97	329	17	15
11	41	3	.33	34	9	.83	242	10	6.5
12	37	2	.20	31	8	.67	186	5	2.5
13	33	3	.27	29	7	.55	135	5	1.8
14	38	2	.21	28	6	.45	104	4	1.1
15	36	2	.19	30	10	.81	85	4	.92
16	34	2	.18	26	9	.63	80	5	1.1
17	32	2	.17	23	8	.50	70	6	1.1
18	31	2	.17	21	7	.40	60	15	2.4
19	30	2	.16	19	6	.31	52	15	2.1
20	33	3	.27	21	17	.96	45	10	1.2
21	130	117	41	23	15	.93	90	46	11
22	142	25	9.6	395	717	765	74	15	3.0
23	160	43	19	178	20	9.6	60	8	1.3
24	135	14	5.1	114	10.	3.1	57	4	.62
25	110	5	1.5	92	10	2.5	47	5	.63
26	94	3	.76	78	10	2.1	45	12	1.5
27	160	36	16	66	17	3.0	42	2	.23
28	205	82	45	57	10	1.5	40	5	.54
29	246	51	34	--	--	--	36	5	.49
30	202	6	3.3	--	--	--	63	19	3.2
31	169	4	1.8	--	--	--	128	20	6.9
TOTAL	2704	--	185.23	1964	--	802.42	3307	--	371.33

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	123	10	3.3	116	7	2.2	33	25	2.2
2	316	444	379	87	7	1.6	21	4	.23
3	352	96	91	94	4	1.0	17	3	.14
4	371	40	40	85	5	1.1	15	3	.12
5	272	10	7.3	74	5	1.0	14	3	.11
6	192	7	3.6	70	5	.95	13	3	.11
7	142	4	1.5	56	5	.76	12	3	.10
8	114	3	.92	47	4	.51	11	3	.09
9	104	3	.84	52	8	1.1	11	3	.09
10	92	3	.75	68	15	2.8	12	3	.10
11	100	10	2.7	53	10	1.4	20	80	4.3
12	126	15	5.1	283	615	470	12	4	.13
13	130	10	3.5	347	20	19	10	3	.08
14	178	550	264	228	6	3.7	9.0	3	.07
15	242	109	71	160	5	2.2	9.8	5	.13
16	180	5	2.4	116	5	1.6	32	20	1.7
17	142	3	1.2	96	5	1.3	18	10	.49
18	114	3	.92	78	4	.84	13	5	.18
19	106	4	1.1	63	3	.51	11	3	.09
20	83	3	.67	53	2	.29	9.8	3	.08
21	71	3	.58	45	1	.12	9.8	4	.11
22	70	5	.95	41	1	.11	11	4	.12
23	73	3	.59	42	1	.11	8.6	3	.07
24	63	3	.51	36	1	.10	8.0	3	.06
25	54	3	.44	32	1	.09	8.6	6	.14
26	49	3	.40	29	2	.16	11	5	.15
27	44	3	.36	25	2	.14	9.4	4	.10
28	39	4	.42	23	2	.12	8.3	4	.09
29	36	4	.39	23	2	.12	19	20	1.0
30	53	73	10	22	2	.12	65	2420	425
31	--	--	--	21	2	.11	--	--	--
TOTAL	4031	--	895.44	2565	--	515.16	462.3	--	437.38

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	153	409	169	6.0	2	.03	71	750	144
2	46	10	1.2	5.4	2	.03	60	25	4.1
3	34	8	.73	6.5	3	.05	108	80	23
4	26	6	.42	7.1	2	.04	66	27	4.8
5	30	5	.41	7.7	2	.04	31	15	1.3
6	22	5	.30	6.3	2	.03	20	10	.54
7	16	3	.13	5.4	2	.03	16	8	.35
8	14	3	.11	5.0	2	.03	14	7	.26
9	12	3	.10	5.0	2	.03	12	7	.23
10	12	3	.10	4.8	2	.03	11	5	.15
11	11	3	.09	4.4	2	.02	9.8	4	.11
12	9.0	2	.05	4.7	1	.01	10	15	.41
13	8.3	2	.04	4.4	1	.01	26	106	7.4
14	7.7	2	.04	4.2	2	.02	22	25	1.5
15	19	30	1.5	3.6	2	.02	14	6	.23
16	11	5	.15	3.4	1	.01	11	5	.15
17	8.0	3	.06	4.2	2	.02	9.8	4	.11
18	7.1	3	.06	5.0	2	.03	9.8	4	.11
19	6.8	3	.06	4.7	1	.01	9.0	4	.10
20	7.4	4	.08	3.8	2	.02	13	42	1.5
21	6.3	3	.05	3.4	2	.02	137	680	252
22	5.7	3	.05	3.3	2	.02	102	15	4.1
23	6.0	3	.05	3.4	3	.03	59	5	.80
24	16	25	1.1	4.4	2	.02	44	3	.36
25	13	5	.18	3.6	1	.01	36	3	.29
26	9.0	3	.07	3.3	1	.01	32	3	.26
27	8.0	2	.04	3.0	2	.02	27	3	.22
28	7.1	2	.04	4.4	5	.06	24	3	.19
29	6.8	2	.04	7.4	5	.10	29	34	2.7
30	8.6	6	.14	33	251	22	28	17	1.3
31	7.1	3	.06	14	10	.38	--	--	--
TOTAL	553.9	--	176.45	183.8	--	23.10	1061.4	--	452.57

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	26186.4
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	6577.75

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.

LOCATION.--Lat 41°04'53", long 76°51'50", Northumberland County, at bridge at Watsontown 100 ft (305 m) upstream from White Deer Creek and 0.8 mi (1.3 km) upstream from Warrior Run.

DRAINAGE AREA.--6,550 mi^2 (17,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.
Water temperatures: October 1972 to September 1973.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 340 mg/l Dec. 21; minimum daily, 1 mg/l on several days during November, December, January, March, and July.
Sediment discharges: Maximum daily, 29,700 tons (26,944 t) Dec. 21; minimum daily, 7.6 tons (6.9 t) July 23.

Period of record:
Sediment concentrations: Maximum daily, 350 mg/l Aug. 19, 1973; minimum daily, 1 mg/l on several days during November, December 1973, January, March, and July 1974.
Sediment discharges: Maximum daily, 49,900 tons (45,300 t) Dec. 7, 1973; minimum daily, 7.6 tons (6.9 t) July 23, 1974.

REMARKS.--Chemical analyses for this station on page 284. Records of discharge are based on records for 01553500 West Branch Susquehanna River at Lewisburg, Pa.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3500	2	19	29600	75	5990	25400	38	2610
2	3680	5	50	23000	35	2170	20900	18	1020
3	5300	9	131	19600	28	1480	17500	13	614
4	4770	6	77	17100	24	1110	15200	9	369
5	6120	2	33	14600	17	670	14500	7	274
6	7340	20	396	12600	16	544	32600	138	12100
7	7770	18	378	11200	15	454	27100	38	2780
8	7670	11	228	10200	12	330	20000	14	756
9	7300	7	138	9400	10	254	20400	20	1100
10	6780	6	110	8790	9	214	30400	41	3370
11	5730	3	46	8480	9	206	28000	24	1810
12	4790	1	13	9820	10	265	24700	17	1130
13	4490	1	12	9370	10	253	21100	10	570
14	4320	3	35	8750	8	189	18400	8	397
15	4110	5	55	7500	13	263	16700	6	271
16	4090	2	22	6320	9	154	14700	5	198
17	3990	1	11	6200	9	151	13100	4	141
18	3730	1	10	6500	6	105	11600	8	251
19	3440	1	9.3	6570	6	106	10300	6	167
20	3250	2	18	6090	4	66	9650	6	156
21	3220	1	8.7	5810	4	63	32300	340	29700
22	3080	1	8.3	5620	5	76	51100	110	15200
23	2890	2	16	5510	3	45	39500	45	4800
24	2760	2	15	5640	3	46	29000	22	1720
25	2730	3	22	6400	5	86	22700	10	613
26	2600	6	42	11400	14	431	21500	7	406
27	2630	11	78	17800	30	1440	33000	42	3740
28	2500	13	88	19900	38	2040	49600	91	12200
29	2520	11	75	26400	47	3350	52700	69	9820
30	11400	140	4310	29400	55	4370	42700	45	5190
31	33200	270	24200	--	--	--	32800	25	2210
TOTAL	171780	--	30654.3	365570	--	26921	799150	--	115683

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	27000	18	1310	28700	20	1550	12100	9	294
2	23900	13	839	24100	14	911	12100	11	359
3	20200	10	545	20900	10	564	12500	15	506
4	17700	11	526	17900	8	387	13000	16	562
5	15200	8	328	15300	7	289	14800	20	799
6	13400	8	289	12800	6	207	18400	22	1090
7	11500	9	279	11000	6	178	21000	25	1420
8	10000	8	216	10500	5	142	20500	20	1110
9	9200	10	248	9400	5	127	28600	51	3940
10	8600	9	209	8800	5	119	59500	157	25200
11	8800	10	238	8200	4	89	66900	144	26000
12	9000	9	219	7800	4	84	50900	55	7560
13	8600	8	186	8200	4	89	38000	37	3800
14	8000	6	130	8200	2	44	28900	27	2110
15	7200	4	78	7400	3	60	22700	21	1290
16	9100	10	246	6900	3	56	18500	22	1100
17	11300	15	458	6400	2	35	16700	15	676
18	12900	17	592	6000	6	97	18500	16	799
19	14100	20	761	5800	5	78	16400	18	797
20	16600	30	1340	5800	4	63	14700	12	476
21	23800	41	2630	5700	7	108	14500	11	431
22	34500	47	4380	7820	16	338	15800	14	597
23	45000	58	7050	21400	100	5780	16200	13	569
24	41600	33	3710	26700	72	5190	15300	15	620
25	38400	26	2700	22100	27	1610	14800	17	679
26	32600	18	1580	18100	14	684	13700	13	481
27	28100	11	835	14900	19	764	12300	10	332
28	28500	16	1230	12800	14	484	11400	5	154
29	33400	27	2430	--	--	--	10900	5	147
30	36600	19	1880	--	--	--	11300	6	183
31	33200	17	1520	--	--	--	19000	16	821
TOTAL	638000	--	38982	359620	--	20127	659900	--	84902

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	26300	32	2270	8650	3	70	6360	12	206
2	29100	30	2360	11000	8	238	6900	14	261
3	47100	118	15000	12300	6	199	6770	10	183
4	69300	87	16300	12300	6	199	6690	8	145
5	72200	77	15000	12200	6	198	5560	6	90
6	56200	42	6370	11500	5	155	4820	5	65
7	40200	28	3040	11300	4	122	4360	2	24
8	29800	24	1930	10600	4	114	4170	3	34
9	25800	19	1320	9740	3	79	3960	3	32
10	24100	13	846	10300	3	83	3780	4	41
11	21100	13	741	10500	2	57	3800	3	31
12	20500	11	609	10400	4	112	4250	7	80
13	21200	9	515	20100	33	1790	3840	9	93
14	22300	6	361	37900	52	5320	3330	6	54
15	25900	48	3360	34700	35	3280	3140	3	25
16	29400	54	4290	27600	25	1860	4680	14	177
17	26400	18	1280	21200	13	744	10100	42	1150
18	22100	12	716	17200	8	372	11300	15	458
19	19400	12	629	14600	6	237	9090	8	196
20	17400	9	423	12500	4	135	7460	6	121
21	15300	6	248	11200	2	60	6220	7	118
22	13600	5	184	10400	2	56	5720	6	93
23	13000	7	246	9760	2	53	5430	5	73
24	12400	8	268	9340	3	76	5170	5	70
25	11700	7	221	8840	1	24	4800	4	52
26	10700	4	116	8510	1	23	4580	2	25
27	9510	4	103	7770	2	42	4940	2	27
28	9010	4	97	6880	1	19	6950	8	150
29	8470	4	91	6350	2	34	7770	14	294
30	7870	2	42	6090	2	33	7920	11	235
31	--	--	--	5870	6	95	--	--	--
TOTAL	757360	--	78976	407600	--	15879	173860	--	4603

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18200	107	5260	4970	10	134	6800	23	422
2	35900	150	14500	4000	8	86	9790	75	1980
3	28300	42	3210	3890	5	53	9630	22	572
4	19600	11	582	3560	4	38	14600	49	1930
5	14500	14	548	3710	2	20	22400	76	4600
6	12900	13	453	3690	2	20	16200	25	1090
7	11600	17	532	3500	3	28	11600	14	438
8	9970	10	269	3180	3	26	9240	6	150
9	8300	6	134	2870	5	39	7880	5	106
10	7180	4	78	2630	5	36	6610	4	71
11	6520	2	35	2490	5	34	5740	4	62
12	5740	1	15	2360	4	25	5120	3	41
13	5190	1	14	2290	3	19	4860	3	39
14	5080	2	27	2420	3	20	4980	3	40
15	4770	3	39	2250	4	24	4700	4	51
16	5080	6	82	2120	4	23	4680	3	38
17	6550	10	177	2020	4	22	5270	6	85
18	4840	3	39	1890	3	15	4270	7	81
19	4080	2	22	1870	2	10	3650	5	49
20	3620	2	20	1900	2	10	3430	6	56
21	3300	3	27	2060	3	17	3860	5	52
22	2980	2	16	1920	4	21	9160	75	1850
23	2800	1	7.6	1860	4	20	11200	20	605
24	2890	1	7.8	1770	3	14	10000	5	135
25	3160	1	8.5	1630	3	13	8200	3	66
26	3350	2	18	1550	3	13	6800	6	110
27	3240	2	17	1520	3	12	6130	2	33
28	2940	2	16	1810	3	15	5710	4	62
29	3170	2	17	1980	8	43	5490	1	15
30	5370	25	362	2600	12	84	5250	1	14
31	5990	17	275	5080	42	576	--	--	--
TOTAL	257110	--	26807.9	81390	--	1510	233250	--	14843

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4904590
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 459888.2

01567000 JUNIATA RIVER AT NEWPORT, PA.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, at gaging station on State Highway 34 bridge at Newport, 1,000 ft (305 m) upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,350 mi^2 (8,680 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, October 1956 to September 1972, October 1973 to September 1974.
Water temperatures: October 1944 to September 1953, April 1958 to September 1962, October 1964 to September 1974.
Sediment records: January 1951 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 235 mg/l Oct. 30; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 12,500 tons (11,300 t) Oct. 30; minimum daily, 3.0 tons (2.7 t) July 22.

Period of record:
Sediment concentrations: Maximum daily, 1,130 mg/l Mar. 2, 1954; minimum daily, 0 mg/l on many days.
Sediment discharges: Maximum daily, 365,000 tons (331,000 t) June 23, 1972; minimum daily, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 296. Unpublished records of water temperatures and specific conductance of sediment samples available in the district office at Harrisburg. Some flow regulation at low flow by powerplants and mills above station.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3690	30	299	11700	54	1710	5860	22	348
2	3050	20	165	10600	40	1140	4480	7	85
3	2870	15	116	9650	29	756	4020	3	33
4	3260	20	176	8850	31	741	3590	2	19
5	2850	13	100	8340	24	540	3610	4	39
6	2280	9	55	8050	23	500	7130	135	2600
7	1960	8	42	7890	16	341	9430	90	2290
8	1790	7	34	7680	14	290	7190	40	777
9	1620	6	26	7460	19	383	7150	20	386
10	1510	6	24	7390	19	379	12600	53	1800
11	1440	4	16	7370	14	279	14500	59	2310
12	1370	5	18	7200	10	194	11500	23	714
13	1310	4	14	7190	14	272	8700	11	258
14	1260	4	14	7340	18	357	7160	8	155
15	1190	3	9.6	7220	19	370	6990	6	113
16	1150	3	9.3	6590	19	338	6340	5	86
17	1120	2	6.0	5120	12	166	5200	5	70
18	1160	2	6.3	4010	5	54	4600	10	124
19	1170	1	3.2	3810	3	31	4300	12	139
20	1160	1	3.1	3500	4	38	4400	15	178
21	1150	1	3.1	2190	2	12	12500	48	1620
22	1130	1	3.1	1890	1	5.1	18200	75	590
23	1160	1	3.1	1730	2	9.3	13300	27	70
24	1060	4	11	1740	2	9.4	11000	12	356
25	1200	5	16	1830	2	9.9	10200	9	248
26	2500	25	169	2340	4	25	8620	8	186
27	5490	146	2260	4060	18	197	12900	20	697
28	7240	180	3520	3940	20	213	23400	66	4260
29	7600	90	1850	5100	31	427	22600	54	3300
30	19100	235	12500	6020	34	553	18900	30	1530
31	17300	120	5610	--	--	--	16100	17	739
TOTAL	102140	--	27081.8	177800	--	10339.7	306470	--	30120

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12100	13	425	7430	16	321	3800	4	41
2	9760	11	290	6770	12	219	3850	6	62
3	8400	8	181	6410	9	156	3370	5	45
4	7180	5	97	6070	7	115	3300	5	45
5	6990	4	75	5380	6	87	3300	5	45
6	6370	5	86	4840	5	65	3260	4	35
7	6020	8	130	4330	5	58	3240	6	52
8	5670	7	107	4110	5	55	3120	9	76
9	5000	8	108	3840	4	41	3440	8	74
10	4710	5	64	3600	4	39	5240	19	269
11	4930	6	80	3400	4	37	8340	38	856
12	6850	12	222	3430	5	46	7370	42	836
13	8770	20	474	3390	4	37	8150	27	594
14	8650	12	280	3410	4	37	6980	7	132
15	7300	8	158	3370	5	45	6130	4	66
16	6920	9	168	3190	4	34	5300	4	57
17	9680	15	392	3050	4	33	3950	2	21
18	11000	20	594	2950	4	32	3690	2	20
19	10600	18	515	2740	4	30	3390	1	9.2
20	10500	13	369	2760	5	37	3100	2	17
21	11200	16	484	2810	4	30	3240	2	17
22	21100	107	6410	3140	6	51	4160	5	56
23	21900	95	5700	4590	17	211	4800	12	156
24	18600	37	1860	5050	14	191	4030	16	174
25	16300	21	924	4210	8	91	3620	14	137
26	12200	18	593	4190	6	68	3390	13	119
27	9550	13	335	3900	4	42	3140	12	102
28	8690	14	328	3710	4	40	3020	11	90
29	9070	17	416	--	--	--	2910	11	86
30	9390	18	456	--	--	--	3520	20	190
31	8420	18	409	--	--	--	13700	148	6050
TOTAL	303820	--	22730	116070	--	2248	141850	--	10529.2

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	20600	153	8620	2760	4	30	2410	25	163
2	16400	62	2750	2680	4	29	2650	26	186
3	14700	48	1910	2700	4	29	2800	30	227
4	13800	56	2090	2680	5	36	2250	18	109
5	14100	66	2510	2760	6	45	2000	13	70
6	11600	55	1720	2620	4	28	1820	6	29
7	9350	20	505	2480	4	27	1690	6	27
8	7830	10	211	2460	4	27	1650	8	36
9	7480	10	202	2520	4	27	1560	8	34
10	7680	10	207	2640	5	36	1510	6	24
11	6880	6	111	2590	6	42	1560	5	21
12	6000	5	81	3090	13	108	1560	5	21
13	5620	4	61	7780	102	2240	1490	4	16
14	6730	15	273	10900	140	4220	1370	6	22
15	9370	65	1640	7170	69	1340	1290	8	28
16	9540	43	1110	5610	41	621	2010	22	119
17	7720	14	292	4680	35	442	4120	70	779
18	5070	5	68	4070	31	341	3830	52	538
19	4520	2	24	3690	27	269	2720	45	330
20	4240	1	11	3440	25	232	2270	30	184
21	3940	1	11	3130	23	194	1960	18	95
22	3680	2	20	2870	19	147	1950	20	105
23	3680	2	20	2800	19	144	1920	19	98
24	3810	4	41	2970	25	200	2350	25	159
25	3730	8	81	2970	26	208	3330	45	405
26	3300	6	53	2560	23	159	3510	40	379
27	3080	5	42	2310	23	143	5270	84	1200
28	2940	5	40	2180	25	147	4260	86	989
29	2850	5	38	2050	18	100	3880	52	545
30	2780	4	30	2000	17	92	3490	43	405
31	--	--	--	1990	18	97	--	--	--
TOTAL	223020	--	24772	107150	--	11800	74480	--	7343

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3730	38	383	1980	21	112	1010	12	33
2	4430	52	622	1540	16	67	1760	20	95
3	4360	60	706	1880	23	117	1790	26	126
4	3290	37	329	1900	23	118	2190	50	296
5	2800	25	189	1490	25	101	2370	48	307
6	2570	21	146	1300	21	74	1990	33	177
7	3420	42	388	1250	22	74	1500	14	57
8	2860	22	170	1110	20	60	1290	17	59
9	2250	36	219	1010	20	55	1170	13	41
10	2070	20	112	1110	22	66	1110	11	33
11	2810	45	341	1110	19	57	1060	12	34
12	2250	35	213	1020	20	55	997	10	27
13	1860	23	116	1040	19	53	1010	12	33
14	1650	15	67	1010	20	55	1540	41	170
15	1530	13	54	924	25	62	1170	27	85
16	1450	11	43	860	19	44	1080	18	52
17	1370	5	18	828	13	29	1070	18	52
18	1310	3	11	812	15	33	943	15	38
19	1250	1	3.4	796	20	43	867	13	30
20	1190	1	3.2	780	15	32	832	12	27
21	1140	1	3.1	796	14	30	852	10	23
22	1110	1	3.0	780	16	34	1040	12	34
23	1060	2	5.7	750	15	30	1020	15	41
24	1080	2	5.8	735	13	26	1090	13	38
25	1120	4	12	735	15	30	1020	13	36
26	1120	3	9.1	750	15	30	909	10	25
27	1130	3	9.2	735	14	28	859	8	19
28	1080	2	5.8	720	13	25	865	6	14
29	1140	15	46	796	13	28	920	5	12
30	2210	35	209	860	14	33	940	7	18
31	1880	16	81	957	13	34	--	--	--
TOTAL	62520	--	4523.3	32364	--	1635	36264	--	2032

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	1683948
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	155154.0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT.							
30...	1610	23100	12.0	231	14400	42	58
DEC.							
10...	1600	13800	5.5	45	1680	--	--
22...	1445	18300	1.5	68	3360	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT.						
30...	70	79	84	90	95	100
DEC.						
10...	--	--	90	100	--	--
22...	--	--	89	100	--	--

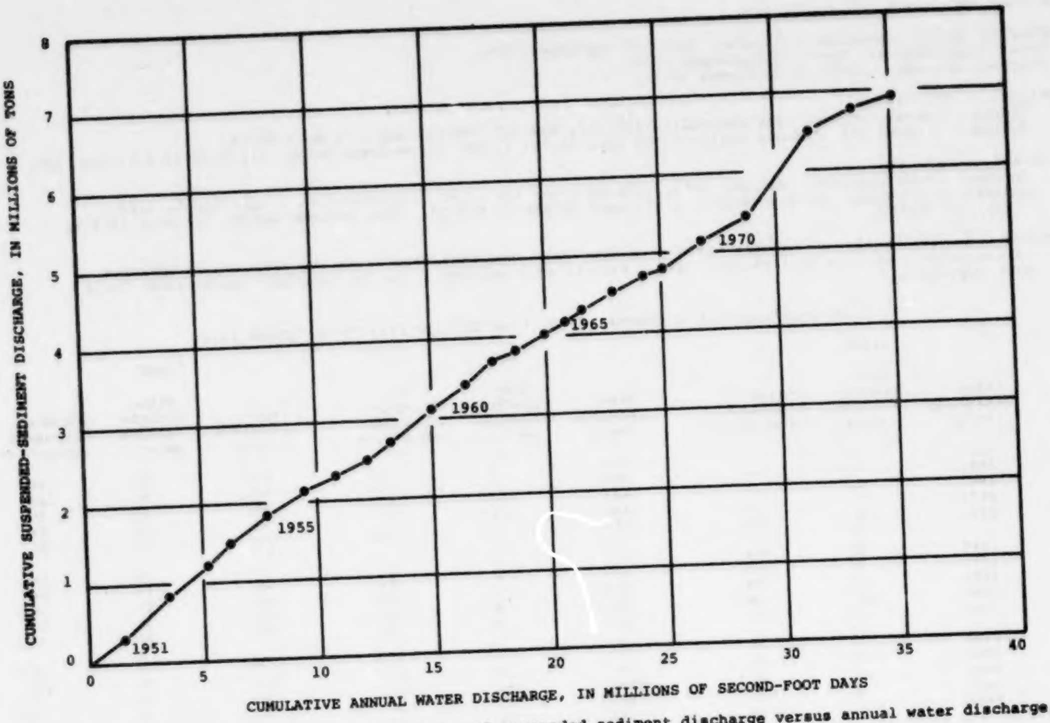


Figure 6.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Juniata River at Newport, Pa.

Table 10.--Suspended sediment concentration-duration table, Juniata River at Newport

Period	Mean daily concentration, in milligrams per litre, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1974	141	110	62	46	28	21	17	13	10	6	5	4	2	1
1951-74	257	175	91	50	27	19	13	10	7	5	4	3	2	1

01569980 CONODOGUINET CREEK AT WILLOW MILL BRIDGE, NEAR HOGESTOWN, PA.

LOCATION.--Lat 40°15'10", long 77°02'08", Cumberland County, at Willow Mill Bridge, 3.0 mi (4.8 km) upstream from gaging station and 0.5 mi (0.8 km) north of U.S. Highway 11 at Hogestown. Sampling site moved in June 1974 to bridge on State Highway 114, 0.1 mi (0.1 km) downstream from Willow Mill Bridge, and 3.0 mi (5.0 km) upstream from gaging station.

DRAINAGE AREA.--446 mi^2 (1,160 km^2).

PERIOD OF RECORD.--Chemical analyses: April to September 1974.
Water temperatures: April to September 1974.
Sediment records: April to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 230 mg/l May 13; minimum daily, 4 mg/l May 6.
Sediment discharges: Maximum daily, 1,280 tons (1,161 t) May 13; minimum daily, 3.1 tons (2.8 t) Aug. 29.

Period of record:
Sediment concentrations: Maximum daily, 230 mg/l May 13, 1974; minimum daily, 4 mg/l May 6, 1974.
Sediment discharges: Maximum daily, 1,280 tons (1,161 t) May 13, 1974; minimum daily, 3.1 tons (2.8 t) Aug. 29, 1974.

REMARKS.--Chemical analyses for this station on page 302. Sediment records may be affected by upstream construction from June to September 1974. Records of discharge given for 01570000 Conodoguinet Creek near Hogestown.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4130	--	--	449	5	6.1	581	75	118
2	2520	--	--	425	7	8.0	810	55	120
3	1900	--	--	431	8	9.3	584	25	39
4	2170	--	--	437	6	7.1	494	20	27
5	2710	80	585	413	5	5.6	418	19	21
6	2240	75	454	391	4	4.2	374	16	16
7	1710	45	208	385	8	8.3	344	15	14
8	1420	20	77	373	6	6.0	329	11	9.8
9	1780	35	168	391	8	8.4	321	12	10
10	1760	29	138	462	7	8.7	309	10	8.3
11	1390	26	98	426	6	6.9	298	7	5.6
12	1200	25	81	468	25	32	315	12	10
13	1200	30	97	2060	230	1280	286	9	6.9
14	1900	90	462	1600	70	302	265	8	5.7
15	2110	105	598	986	30	80	294	15	12
16	1860	75	377	779	22	46	392	25	26
17	1420	27	104	644	12	21	808	45	98
18	1180	18	57	565	8	12	579	30	47
19	1030	17	47	537	13	19	414	21	23
20	925	15	37	496	12	16	349	23	22
21	821	12	27	453	12	15	336	17	15
22	751	10	20	432	17	20	312	19	16
23	738	8	16	780	30	63	370	35	35
24	759	7	14	812	40	88	1100	80	238
25	647	6	10	569	21	32	896	46	111
26	584	6	9.5	467	15	19	905	70	171
27	540	8	12	419	11	12	778	57	120
28	512	6	8.3	392	10	11	619	33	55
29	489	6	7.9	371	10	10	686	50	93
30	472	6	7.6	362	11	11	613	70	116
31	--	--	--	364	14	14	--	--	--
TOTAL	42868	--	3720.3	18139	--	2181.6	15179	--	1609.3

01569980 CONODOGUINET CREEK AT WILLOW MILL BRIDGE, NEAR HOGESTOWN, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	528	30	43	198	13	6.9	149	22	8.9
2	576	25	39	190	15	7.7	161	15	6.5
3	442	18	21	204	14	7.7	198	100	53
4	371	14	14	214	17	9.8	250	30	20
5	333	22	20	214	19	11	209	20	11
6	316	11	9.4	204	17	9.4	174	20	9.4
7	301	12	9.8	184	23	11	197	22	12
8	281	10	7.6	176	28	13	199	26	14
9	262	8	5.7	171	14	6.5	195	19	10
10	250	15	10	169	9	4.1	172	16	7.4
11	265	28	20	168	7	3.2	160	16	6.9
12	244	35	23	167	8	3.6	162	14	6.1
13	226	40	24	158	9	3.8	179	16	7.7
14	216	40	23	156	8	3.4	355	40	38
15	211	70	40	153	14	5.8	288	28	22
16	201	50	27	146	10	3.9	201	23	12
17	196	35	19	151	40	16	165	17	7.6
18	188	33	17	158	20	8.5	149	13	5.2
19	192	35	18	151	50	20	140	9	3.4
20	187	40	20	146	40	16	130	16	5.6
21	184	20	9.9	142	18	6.9	126	15	5.1
22	178	40	19	140	16	6.0	133	10	3.6
23	174	34	16	142	10	3.8	128	12	4.1
24	183	15	7.4	146	10	3.9	121	14	4.6
25	188	18	9.1	144	9	3.5	113	12	3.7
26	186	17	8.5	140	20	7.6	108	16	4.7
27	179	13	6.3	135	30	11	106	26	7.4
28	191	14	7.2	140	14	5.3	113	16	4.9
29	200	22	12	144	8	3.1	119	25	8.0
30	227	18	11	149	12	4.8	130	14	4.9
31	233	18	11	144	13	5.1	--	--	--
TOTAL	7909	--	527.9	5044	--	232.3	5030	--	317.7

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 235009
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 8569.1

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAY 13...	1500	2670	15.5	227	1640	58	70	81	89	94	100
SEP. 03...	1200	178	23.0	41	20	46	51	57	70	82	100

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, at gaging station on right bank 720 ft (219 m) upstream from bridge on State Highway 944, 3.2 mi (5.15 km) upstream from mouth, and 3.3 mi (5.31 km) west of Enola.

DRAINAGE AREA.--0.77 mi^2 (1.99 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1974.
Sediment records: April 1969 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 180 mg/l Mar. 30; minimum, 1 mg/l Oct. 26-28.
Sediment discharges: Maximum, 11 tons (10 t) Mar. 30; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 383 mg/l June 22, 1972; minimum, 1 mg/l on many days each year.
Sediment discharges: Maximum, 285 tons (258 t) June 22, 1972; minimum, 0 tons (0 t) on many days each year.

REMARKS.--Chemical analyses for this station on page 304.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.15	3	0	.40	4	.01	.17	3	0
2	.38	11	.02	.31	4	0	.16	4	0
3	.35	4	0	.24	3	0	.16	4	0
4	.33	3	0	.24	2	0	.16	4	0
5	.30	2	0	.25	2	0	1.3	34	.22
6	.25	2	0	.23	2	0	.98	7	.02
7	.25	2	0	.21	2	0	.50	5	.01
8	.25	2	0	.21	3	0	.40	3	0
9	.25	3	0	.18	3	0	7.5	68	2.8
10	.22	3	0	.16	4	0	2.6	12	.08
11	.19	3	0	.16	4	0	1.4	8	.03
12	.19	3	0	.16	3	0	1.1	6	.02
13	.19	3	0	.16	4	0	1.1	8	.03
14	.16	3	0	.16	4	0	1.6	9	.04
15	.16	3	0	.16	5	0	1.0	6	.02
16	.15	3	0	.16	5	0	.85	6	.02
17	.15	3	0	.16	4	0	.70	6	.02
18	.14	3	0	.16	3	0	.63	4	.01
19	.14	3	0	.16	3	0	.60	4	.01
20	.14	3	0	.15	2	0	4.9	52	1.8
21	.14	3	0	.15	2	0	16	57	3.2
22	.14	3	0	.14	2	0	4.0	8	.09
23	.13	3	0	.14	2	0	2.7	7	.05
24	.13	2	0	.21	6	.01	2.1	6	.03
25	.12	2	0	.20	5	0	1.9	5	.03
26	.11	1	0	.19	3	0	8.6	35	1.4
27	.11	1	0	.20	2	0	8.7	10	.25
28	.11	1	0	.36	12	.01	4.6	7	.09
29	1.9	50	.80	.27	5	0	2.9	5	.04
30	.85	7	.02	.23	3	0	2.2	5	.03
31	.48	4	0	--	--	--	2.3	5	.03
TOTAL	8.56	--	.84	6.11	--	.03	83.81	--	10.37

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.3	3	.02	1.0	2	.01	.77	4	.01
2	1.6	3	.01	.98	2	.01	.85	8	.02
3	2.0	6	.02	.88	2	.01	.75	5	.01
4	2.6	5	.04	.75	3	.01	.64	3	.01
5	1.8	5	.03	.60	3	.01	.60	3	.01
6	1.4	5	.02	.60	3	.01	.54	3	0
7	1.3	5	.02	.65	3	.01	.50	3	0
8	1.2	4	.01	.60	3	.01	.52	7	.01
9	1.0	4	.01	.53	3	0	1.2	30	.19
10	.90	4	.01	.48	4	.01	1.7	15	.09
11	1.8	8	.02	.50	4	.01	1.0	6	.02
12	1.6	4	.02	.52	4	.01	.84	6	.01
13	1.0	4	.01	.54	4	.01	.72	5	.01
14	.90	4	.01	.48	4	.01	.64	5	.01
15	.84	4	.01	.44	4	.01	.60	5	.01
16	1.4	15	.07	.40	3	0	1.7	34	.25
17	2.1	7	.04	.44	3	0	1.4	10	.04
18	1.2	6	.02	.40	3	0	.88	8	.02
19	1.3	5	.02	.61	8	.02	.81	6	.01
20	1.3	5	.02	.70	6	.01	.67	4	.01
21	8.9	79	3.4	.48	4	.01	4.4	82	2.1
22	4.4	8	.10	2.9	92	1.2	2.1	8	.05
23	3.0	7	.06	1.7	8	.04	1.4	5	.02
24	2.5	4	.03	1.0	6	.02	1.2	5	.02
25	2.0	4	.02	.95	5	.01	1.0	5	.01
26	1.8	12	.06	.75	4	.01	.94	5	.01
27	2.3	6	.04	.65	3	.01	.84	5	.01
28	1.9	11	.07	.70	3	.01	.77	4	.01
29	1.8	6	.03	--	--	--	.78	4	.01
30	1.4	3	.01	--	--	--	12	180	11
31	1.2	2	.01	--	--	--	9.4	46	1.6
TOTAL	60.74	--	4.26	21.23	--	1.48	52.16	--	15.58

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	9	.10	.50	3	0	.91	10	.03
2	3.1	9	.09	.45	3	0	.40	5	.01
3	2.2	6	.03	.70	10	.02	.31	5	0
4	12	89	4.2	.50	3	0	.27	5	0
5	5.3	15	.26	.50	3	0	.24	4	0
6	3.3	6	.05	.48	5	.01	.22	4	0
7	2.6	7	.05	.48	3	0	.19	4	0
8	2.7	10	.07	.42	3	0	.19	4	0
9	6.3	26	.50	1.0	11	.04	.18	4	0
10	2.9	13	.10	.70	5	.02	.17	5	0
11	2.2	10	.06	.50	4	.01	.18	6	0
12	2.1	6	.03	4.2	87	2.1	.15	7	0
13	2.9	18	.17	2.1	16	.09	.14	9	0
14	2.7	38	.77	1.1	7	.02	.14	9	0
15	3.7	21	.31	.79	5	.01	.15	8	0
16	2.1	7	.04	.60	5	.01	.78	81	.41
17	1.7	8	.04	.48	4	.01	.58	20	.04
18	1.5	11	.04	.48	4	.01	.21	8	.01
19	1.4	8	.03	.42	4	0	.18	6	0
20	1.3	6	.02	.38	4	0	.18	6	0
21	1.2	6	.02	.34	4	0	.16	6	0
22	1.1	7	.02	.50	23	.06	.15	5	0
23	1.2	6	.02	.82	12	.03	1.2	41	.17
24	.98	5	.01	.45	5	.01	.45	8	.01
25	.85	4	.01	.38	4	0	.35	7	.01
26	.70	4	.01	.34	4	0	.31	5	0
27	.70	4	.01	.32	5	0	.23	5	0
28	.63	4	.01	.33	4	0	1.2	53	.53
29	.63	4	.01	.31	4	0	1.0	12	.03
30	.56	3	0	.31	3	0	.45	6	.01
31	--	--	--	.43	16	.04	--	--	--
TOTAL	73.85	--	7.08	21.31	--	2.49	11.27	--	1.26

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.44	13	.02	.08	4	0	.14	44	.03
2	.27	5	0	.24	57	.13	.10	10	0
3	.25	4	0	.16	30	.02	.56	98	.34
4	.22	4	0	.13	8	0	.13	20	.01
5	.25	5	0	.10	4	0	.11	6	0
6	.19	6	0	.10	5	0	.10	6	0
7	.16	6	0	.09	6	0	.35	30	.04
8	.14	6	0	.09	5	0	.13	6	0
9	.13	6	0	.11	8	0	.12	4	0
10	.14	7	0	.10	5	0	.11	4	0
11	.14	6	0	.08	5	0	.11	4	0
12	.12	5	0	.08	6	0	.18	29	.03
13	.11	4	0	.08	7	0	.43	132	.57
14	.11	4	0	.07	8	0	.50	28	.05
15	.10	4	0	.07	6	0	.24	10	.01
16	.10	4	0	.08	12	.01	.16	8	0
17	.10	4	0	.13	43	.04	.13	8	0
18	.10	4	0	.08	9	0	.13	8	0
19	.10	5	0	.07	6	0	.12	8	0
20	.10	4	0	.07	5	0	.12	8	0
21	.09	4	0	.06	5	0	.13	12	0
22	.09	3	0	.07	6	0	.12	6	0
23	.10	3	0	.07	6	0	.11	6	0
24	.12	5	0	.06	6	0	.11	6	0
25	.10	4	0	.06	6	0	.11	6	0
26	.11	4	0	.06	8	0	.11	5	0
27	.10	3	0	.06	8	0	.10	5	0
28	.10	10	0	.06	8	0	.18	10	.01
29	.21	37	.05	.08	35	.01	.13	6	0
30	.16	7	0	.10	12	.01	.12	4	0
31	.10	6	0	.09	2	0	--	--	--
TOTAL	4.55	--	.07	2.78	--	.22	5.19	--	1.09

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 351.56
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 44.77

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB.									
22...	1305	5.7	420	26	38	53	63	88	96
MAR.									
21...	1125	10	536	23	37	52	69	87	94
30...	1546	20	324	22	32	47	63	77	83
APR.									
14...	2240	8.6	646	33	48	55	76	86	98
MAY									
12...	1538	17	1372	29	46	63	80	91	97
JULY									
29...	2157	.98	487	53	76	92	96	98	100

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'21", long 76°58'35", Cumberland County, at gaging station on right bank 100 ft (30 m) upstream from bridge on Valley Street, 1.7 mi (2.7 km) upstream from mouth, and 2.4 mi (3.9 km) west of Enola.

DRAINAGE AREA.--0.76 mi^2 (1.97 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 1,460 mg/l Apr. 14; minimum, 2 mg/l on several days during October and November.
Sediment discharges: Maximum, 42 tons (38 t) Apr. 14; minimum, 0 tons (0 t) on many days each year.

Period of record:
Sediment concentrations: Maximum, 1,460 mg/l Apr. 14, 1974; minimum, 1 mg/l on several days during October and November 1972.
Sediment discharges: Maximum, 52 tons (47 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days each year.

REMARKS.--Chemical analyses for this station on page 306. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.25	5	0	.57	240	.37	.21	4	0
2	.72	62	.16	.33	15	.01	.21	4	0
3	.57	10	.02	.42	8	.01	.21	4	0
4	.47	6	.01	.33	5	0	.21	4	0
5	.42	5	.01	.33	5	0	1.5	320	2.4
6	.33	5	0	.33	5	0	1.4	134	.53
7	.33	5	0	.25	5	0	.75	12	.02
8	.29	5	0	.25	15	.01	.57	8	.01
9	.29	5	0	.25	10	.01	7.9	520	17
10	.25	5	0	.24	4	0	2.1	70	.41
11	.21	4	0	.21	4	0	1.3	20	.07
12	.21	4	0	.21	4	0	.92	10	.02
13	.21	3	0	.21	4	0	1.0	10	.03
14	.21	3	0	.21	6	0	1.5	16	.07
15	.18	3	0	.18	10	.01	1.0	17	.05
16	.18	3	0	.18	6	0	.85	17	.04
17	.18	3	0	.18	4	0	.85	18	.04
18	.18	3	0	.18	2	0	.66	15	.03
19	.18	2	0	.18	2	0	.60	12	.02
20	.15	2	0	.15	2	0	3.8	100	2.8
21	.15	2	0	.15	2	0	13	139	6.2
22	.15	2	0	.15	2	0	3.5	35	.38
23	.15	2	0	.15	2	0	2.1	20	.12
24	.15	2	0	.16	21	.01	1.6	12	.05
25	.15	2	0	.21	3	0	1.3	9	.03
26	.15	3	0	.18	3	0	8.1	119	4.5
27	.15	3	0	.18	3	0	7.8	31	.65
28	.12	3	0	.38	106	.17	3.5	9	.08
29	3.2	791	22	.37	7	.01	2.3	8	.05
30	1.1	18	.05	.25	6	0	1.9	8	.04
31	.62	12	.02	--	--	--	1.9	8	.05
TOTAL	11.90	--	22.27	7.37	--	.61	74.54	--	35.69

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	8	.04	.92	5	.01	1.0	10	.03
2	1.4	167	1.2	.85	5	.01	.85	13	.03
3	1.8	14	.05	.92	5	.01	.85	12	.03
4	2.7	45	.33	1.0	11	.03	.85	12	.03
5	1.5	10	.04	.92	23	.06	.72	8	.02
6	1.3	9	.03	1.0	20	.05	.66	8	.01
7	1.2	8	.03	1.3	15	.05	.66	8	.01
8	1.0	8	.02	.60	12	.02	.70	8	.02
9	1.1	8	.02	.60	12	.02	1.2	53	.31
10	1.1	8	.02	.55	12	.02	2.0	30	.23
11	1.4	10	.05	.55	12	.02	1.5	11	.04
12	1.5	10	.04	.60	12	.02	.92	8	.02
13	1.0	8	.02	.66	12	.02	.78	5	.01
14	.92	8	.02	.55	11	.02	.72	3	.01
15	.85	8	.02	.50	11	.01	.60	3	0
16	1.0	18	.07	.50	11	.01	1.7	47	.36
17	2.5	29	.20	.50	11	.01	1.4	10	.04
18	1.3	16	.06	.45	11	.01	.92	6	.01
19	1.3	12	.04	.40	20	.02	.85	6	.01
20	1.3	12	.04	.72	16	.03	.78	6	.01
21	9.6	144	7.0	.55	12	.02	4.3	211	5.1
22	4.1	12	.13	3.9	720	15	2.0	12	.06
23	2.6	12	.08	2.0	21	.11	1.3	10	.04
24	2.0	12	.06	1.2	11	.04	1.1	5	.01
25	1.6	12	.05	1.1	9	.03	.92	3	.01
26	1.5	28	.14	1.1	9	.03	.85	3	.01
27	2.0	16	.09	1.2	9	.03	.85	3	.01
28	1.6	21	.11	1.3	10	.04	.72	3	.01
29	1.5	7	.03	--	--	--	.72	3	.01
30	1.3	5	.02	--	--	--	16	308	28
31	1.1	5	.01	--	--	--	10	58	2.0
TOTAL	56.97	--	10.06	26.44	--	15.75	58.42	--	36.49

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	45	.40	.55	11	.02	.62	52	.13
2	3.1	25	.25	.50	8	.01	.45	11	.01
3	2.2	145	.87	.67	15	.04	.32	11	.01
4	10	194	6.3	.60	8	.01	.32	11	.01
5	3.7	28	.30	.55	5	.01	.32	11	.01
6	2.3	14	.09	.45	8	.02	.26	11	.01
7	1.8	10	.05	.45	5	.01	.23	11	.01
8	1.7	27	.16	.45	5	.01	.26	15	.01
9	5.7	75	1.3	.62	37	.08	.26	30	.02
10	2.3	15	.09	.60	6	.01	.26	33	.02
11	1.6	10	.04	.45	6	.01	.26	20	.01
12	1.4	8	.03	3.4	461	16	.20	20	.01
13	2.0	18	.11	1.0	46	.15	.20	19	.01
14	3.0	1460	42	.85	25	.06	.20	19	.01
15	3.9	121	1.6	.66	18	.03	.26	19	.01
16	1.8	42	.20	.50	18	.02	1.7	608	8.0
17	1.4	30	.11	.50	18	.02	.80	273	.64
18	1.2	150	.49	.50	13	.02	.40	46	.05
19	1.1	30	.09	.45	13	.02	.32	36	.03
20	1.0	15	.04	.40	13	.01	.32	26	.02
21	.85	9	.02	.40	13	.01	.32	100	.09
22	.85	8	.02	.50	206	.54	.32	40	.03
23	.85	8	.02	.60	35	.06	1.8	501	4.5
24	.78	8	.02	.45	20	.02	.72	46	.09
25	.72	9	.02	.36	15	.01	.57	35	.05
26	.66	10	.02	.32	14	.01	.55	20	.03
27	.60	10	.02	.32	18	.02	.45	30	.04
28	.66	10	.02	.32	14	.01	1.4	267	3.6
29	.60	11	.02	.36	14	.02	1.2	17	.06
30	.55	11	.02	.32	14	.01	.66	12	.02
31	--	--	--	.38	42	.07	--	--	--
TOTAL	61.62	--	54.72	18.48	--	17.34	15.95	--	17.54

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.60	7	.01	.17	35	.02	.73	1100	7.7
2	.45	7	.01	1.1	584	13	.32	45	.04
3	.36	7	.01	.67	320	1.5	2.8	701	24
4	.32	7	.01	.26	40	.03	.55	20	.03
5	.32	7	.01	.29	18	.01	.29	20	.02
6	.29	7	.01	.23	18	.01	.33	56	.11
7	.26	7	.01	.20	18	.01	1.2	171	1.2
8	.23	7	0	.20	18	.01	.45	20	.02
9	.23	7	0	.20	18	.01	.36	16	.02
10	.23	7	.01	.20	18	.01	.32	13	.01
11	.23	7	0	.17	18	.01	.26	12	.01
12	.17	6	0	.15	18	.01	.63	738	5.3
13	.17	5	0	.14	18	.01	1.8	530	24
14	.20	4	0	.14	18	.01	1.2	45	.14
15	.17	4	0	.12	18	.01	.60	14	.02
16	.16	5	0	.29	650	5.0	.40	12	.01
17	.16	5	0	.68	703	12	.32	10	.01
18	.14	5	0	.29	25	.02	.27	8	.01
19	.17	6	0	.20	40	.02	.26	7	0
20	.14	5	0	.16	40	.01	.24	7	0
21	.11	5	0	.14	20	.01	.29	166	.25
22	.11	4	0	.11	22	.01	.24	30	.02
23	.20	8	0	.14	20	.01	.20	15	.01
24	.20	7	.01	.14	18	.01	.19	12	.01
25	.14	6	0	.11	17	.01	.17	12	.01
26	.16	5	0	.10	17	0	.17	12	.01
27	.17	6	0	.11	8	0	.17	12	.01
28	.14	25	.02	.11	6	0	.41	950	3.4
29	.52	637	5.0	.20	622	1.2	.29	40	.03
30	.41	103	.12	.32	172	.16	.23	40	.02
31	.23	44	.03	.23	32	.02	--	--	--
TOTAL	7.39	--	5.26	7.87	--	33.14	15.69	--	66.42

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 362.34
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 315.29

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.									
29...	1642	22	6010	51	68	82	94	97	100
FEB.									
22...	1250	6.6	1080	62	77	86	93	97	100
MAR.									
21...	1120	15	2110	36	49	64	78	90	98
30...	1616	22	776	23	32	43	55	70	83
APR.									
03...	1214	2.4	1833	50	69	86	98	99	100
14...	2234	16	18800	34	45	58	74	89	98
MAY									
12...	1548	20	16400	44	58	80	89	95	99
JUNE									
16...	0544	8.5	3740	64	78	89	96	99	100
23...	0800	5.2	4290	55	71	83	86	99	100
23...	0845	4.8	2860	71	81	92	97	99	100
JULY									
29...	2200	3.9	12800	52	64	81	94	99	100
29...	2219	5.2	8510	60	76	89	97	99	100
29...	2319	2.0	2220	78	90	96	98	99	100
AUG.									
02...	1928	4.3	3060	64	80	90	96	99	100
03...	2102	3.9	4160	65	83	92	97	98	100
17...	1643	17	11100	50	60	76	91	98	100
17...	1711	3.1	5370	63	78	92	97	98	100
SEP.									
01...	2007	5.2	12400	47	61	79	93	98	100
01...	2040	1.5	7840	65	81	94	99	99	100
01...	2241	14	12200	44	57	72	84	90	99
01...	2245	11	8520	51	66	81	93	98	100
01...	2314	3.5	3810	67	82	92	97	99	100
03...	1705	34	14700	37	49	64	82	94	99
14...	2400	36	18700	41	55	70	86	96	99

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.

LOCATION.--Lat 40°17'44", long 76°57'55", Cumberland County, at gaging station on left bank 120 ft (37 m) downstream from bridge on Valley Street, 2.6 mi (4.2 km) upstream from mouth, and 1.6 mi (2.6 km) west of Enola.

DRAINAGE AREA.--0.70 mi^2 (1.81 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 1,410 mg/l Sept. 1; minimum, 1 mg/l Mar. 15.
Sediment discharges: Maximum, 22 tons (20 t) Mar. 30; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 1,410 mg/l Sept. 1, 1974; minimum, 1 mg/l on several days during October and November 1972.
Sediment discharges: Maximum, 55 tons (50 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 308. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.11	12	0	.27	40	.03	.13	8	0
2	.60	105	.26	.19	12	.01	.11	6	0
3	.33	14	.01	.15	10	.01	.11	5	0
4	.20	14	.01	.13	6	0	.11	6	0
5	.17	13	.01	.15	6	0	1.3	234	1.7
6	.17	12	.01	.16	6	0	.84	59	.20
7	.15	12	.01	.15	6	0	.39	15	.02
8	.17	35	.01	.19	60	.03	.30	10	.01
9	.14	14	.01	.13	18	.01	6.4	302	9.8
10	.13	10	0	.11	20	.01	1.9	22	.14
11	.11	7	0	.10	5	0	.90	15	.04
12	.11	6	0	.10	5	0	.67	12	.02
13	.11	5	0	.10	15	0	.68	14	.03
14	.10	5	0	.15	15	.01	1.1	23	.07
15	.10	15	0	.13	6	0	.70	10	.02
16	.07	22	0	.11	6	0	.52	8	.01
17	.11	15	.01	.10	12	0	.70	12	.02
18	.10	10	0	.10	5	0	.56	7	.01
19	.10	8	0	.10	4	0	.42	6	.01
20	.11	6	0	.11	4	0	3.5	73	2.1
21	.10	5	0	.10	4	0	12	140	6.2
22	.09	5	0	.10	4	0	4.9	25	.33
23	.08	6	0	.10	4	0	2.5	12	.08
24	.07	6	0	.15	31	.02	1.6	9	.04
25	.06	4	0	.13	15	.01	1.3	6	.02
26	.06	4	0	.11	6	0	6.3	64	1.8
27	.05	4	0	.13	6	0	7.0	21	.41
28	.05	4	0	.26	61	.05	4.3	12	.13
29	1.8	1060	18	.21	12	.01	2.3	11	.07
30	.62	30	.05	.15	10	.01	1.7	10	.05
31	.86	99	.37	--	--	--	1.7	20	.10
TOTAL	7.03	--	18.76	4.17	--	.21	66.94	--	23.43

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	12	.06	.96	4	.01	.68	10	.02
2	1.1	10	.03	.90	4	.01	.74	13	.03
3	1.5	12	.06	.80	4	.01	.72	5	.01
4	1.3	10	.03	.67	4	.01	.62	4	.01
5	1.1	7	.02	.58	4	.01	.56	3	0
6	1.0	5	.01	.52	4	0	.50	2	0
7	.93	10	.03	.58	3	0	.50	2	0
8	.72	7	.01	.54	3	0	.47	3	0
9	.77	6	.01	.50	3	0	1.0	55	.33
10	.67	5	.01	.50	3	0	1.4	13	.06
11	1.3	6	.02	.46	3	0	.83	7	.02
12	1.2	6	.02	.48	3	0	.72	5	.01
13	.72	5	.01	.50	4	.01	.62	4	.01
14	.62	5	.01	.46	4	0	.56	2	0
15	.60	4	.01	.42	4	0	.48	1	0
16	.95	6	.02	.40	3	0	1.7	38	.35
17	1.8	10	.05	.40	3	0	1.3	8	.03
18	1.0	7	.02	.38	3	0	.85	6	.01
19	1.0	9	.03	.58	7	.01	.80	5	.01
20	1.0	6	.02	.65	6	.01	.65	4	.01
21	7.6	105	3.8	.42	4	0	4.3	117	2.6
22	5.0	12	.16	3.8	208	4.4	1.9	10	.06
23	3.0	8	.06	1.7	19	.10	1.3	7	.02
24	2.0	6	.04	1.0	6	.02	1.2	6	.02
25	1.7	6	.03	.92	5	.01	.89	5	.01
26	1.6	13	.07	.70	4	.01	.83	5	.01
27	1.9	11	.06	.65	4	.01	.72	5	.01
28	1.6	14	.08	.62	3	.01	.65	4	.01
29	1.4	8	.03	--	--	--	.62	5	.01
30	1.2	4	.01	--	--	--	9.7	379	22
31	1.0	4	.01	--	--	--	12	72	3.2
TOTAL	48.98	--	4.83	21.09	--	4.64	49.81	--	28.86

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.3	12	.17	.50	5	.01	.72	40	.11
2	3.8	11	.11	.48	6	.01	.39	7	.01
3	2.6	10	.07	.67	6	.01	.36	4	0
4	9.6	102	3.1	.50	5	.01	.33	4	0
5	6.2	20	.42	.46	5	.01	.30	3	0
6	3.5	11	.10	.46	5	.01	.30	326	.24
7	2.2	6	.04	.46	4	0	.28	700	.51
8	2.2	14	.10	.44	4	0	.27	30	.02
9	6.7	46	.92	.91	33	.12	.25	18	.01
10	2.7	9	.07	.56	5	.01	.23	15	.01
11	2.0	7	.04	.50	4	.01	.26	45	.04
12	1.8	5	.02	4.3	370	16	.23	12	.01
13	2.6	28	.25	2.9	37	.28	.20	9	0
14	3.2	179	5.4	1.1	6	.02	.19	8	0
15	4.2	61	.92	.77	6	.01	.19	8	0
16	2.0	11	.06	.62	7	.01	1.2	300	5.6
17	1.6	7	.03	.54	8	.01	.85	137	.75
18	1.3	6	.02	.50	6	.01	.30	28	.02
19	1.3	5	.02	.42	5	.01	.23	13	.01
20	1.1	5	.01	.39	5	.01	.23	12	.01
21	1.0	5	.01	.36	4	0	.20	10	.01
22	.96	7	.02	.46	19	.03	.18	8	0
23	.98	7	.01	.60	12	.02	1.4	271	2.0
24	.80	6	.01	.48	9	.01	.50	35	.05
25	.72	5	.01	.46	6	.01	.30	27	.02
26	.65	5	.01	.42	3	0	.25	18	.01
27	.58	5	.01	.39	5	0	.17	12	.01
28	.54	5	.01	.36	3	0	1.0	112	1.3
29	.50	5	.01	.39	5	0	.79	32	.08
30	.50	5	.01	.36	4	0	.33	12	.01
31	--	--	--	.43	15	.03	--	--	--
TOTAL	73.13	--	11.98	22.19	--	16.66	12.43	--	10.84

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.34	16	.02	.10	32	.01	.84	1410	17
2	.21	15	.01	.80	465	6.2	.19	96	.07
3	.17	15	.01	.40	278	.87	2.2	939	19
4	.14	15	.01	.23	106	.07	.31	40	.03
5	.15	15	.01	.15	40	.02	.17	25	.01
6	.13	12	0	.13	34	.01	.18	23	.01
7	.12	10	0	.11	26	.01	1.1	118	.87
8	.11	8	0	.11	22	.01	.25	28	.02
9	.11	5	0	.13	26	.01	.19	25	.01
10	.13	5	0	.11	22	.01	.17	22	.01
11	.12	7	0	.10	20	.01	.16	22	.01
12	.10	7	0	.18	48	.04	.69	508	5.6
13	.10	7	0	.20	291	.31	1.1	411	9.0
14	.10	7	0	.08	43	.01	.69	68	.16
15	.08	8	0	.10	78	.02	.25	20	.01
16	.09	7	0	.28	1010	2.2	.19	17	.01
17	.08	6	0	.25	1240	2.0	.17	15	.01
18	.08	6	0	.13	141	.05	.16	14	.01
19	.09	4	0	.11	50	.01	.14	13	0
20	.07	4	0	.09	43	.01	.15	10	0
21	.08	5	0	.10	35	.01	.22	157	.12
22	.07	5	0	.11	28	.01	.17	22	.01
23	.08	5	0	.11	26	.01	.16	14	.01
24	.13	14	.01	.10	25	.01	.15	12	0
25	.22	264	1.2	.09	24	.01	.14	10	0
26	.10	12	0	.10	23	.01	.13	9	0
27	.10	10	0	.09	23	.01	.13	8	0
28	.11	18	.01	.09	23	.01	.41	192	.89
29	.51	475	4.9	.18	553	1.4	.19	22	.01
30	.23	256	.26	.20	481	.36	.17	12	.01
31	.11	55	.02	.12	50	.02	--	--	--
TOTAL	4.26	--	6.46	5.08	--	13.74	11.17	--	52.89

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 326.28
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 193.30

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.									
29...	1610	10	3780	55	70	85	93	98	98
FEB.									
22...	1243	8.5	1430	48	66	82	94	96	99
MAR.									
21...	1220	14	2210	33	48	64	80	81	96
30...	1840	18	341	31	40	54	68	81	86
APR.									
14...	2230	16	2110	40	57	73	87	95	96
MAY									
12...	1602	20	8340	44	59	75	90	97	99
JUNE									
16...	0505	14	4840	46	61	77	90	95	99
JULY									
29...	2136	5.9	2370	34	49	67	87	97	97
29...	2145	5.0	4650	54	69	84	96	99	100
29...	2226	3.3	3280	66	82	92	97	99	100
AUG.									
02...	1835	7.3	4520	58	73	88	97	98	100
03...	2043	2.3	1840	69	84	93	98	99	100
17...	1600	1.3	6270	59	76	92	98	100	100
SEP.									
01...	1817	4.4	11800	49	62	81	96	98	100
01...	1856	1.6	7270	65	81	94	99	100	100
01...	1900	1.5	6870	66	82	94	99	99	100
01...	2115	4.4	4650	63	77	91	98	99	100
01...	2120	3.9	3780	64	80	92	98	99	100
03...	0345	8.5	4380	58	72	86	95	98	100
03...	1503	14	12200	37	50	66	85	96	99

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.

LOCATION.--Lat 40°17'47", long 76°57'51", Cumberland County, at gaging station on right bank 20 ft (6 m) upstream from bridge on Valley Street, 2.6 mi (4.2 km) upstream from mouth, and 1.6 mi (2.6 km) west of Enola.

DRAINAGE AREA.--0.65 mi^2 (1.68 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1974.
Sediment records: October 1972 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 1,340 mg/l Oct. 29; minimum, 18 mg/l Oct. 11, Jan. 5.
Sediment discharges: Maximum, 38 tons (34 t) Mar. 30; minimum, 0 tons (0 t) on many days each year.

Period of record:
Sediment concentrations: Maximum, 2,370 mg/l Sept. 14, 1973; minimum, 6 mg/l Nov. 30, 1972.
Sediment discharges: Maximum, 125 tons (113 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days each year.

REMARKS.--Chemical analyses for this station on page 310. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.07	50	.01	.11	150	.04	.18	55	.03
2	.27	165	.16	.08	130	.03	.17	50	.03
3	.14	115	.04	.05	100	.01	.20	45	.02
4	.19	120	.06	.03	70	.01	.21	45	.02
5	.09	270	.07	.05	50	.01	1.9	561	5.6
6	.08	70	.02	.16	210	.09	.86	300	.70
7	.04	40	0	.13	220	.08	.44	100	.12
8	.03	40	0	.16	160	.07	.36	75	.07
9	.05	32	0	.14	130	.05	7.7	805	25
10	.03	24	0	.14	115	.04	1.6	664	2.8
11	.02	18	0	.14	90	.03	.72	100	.19
12	.07	20	0	.15	110	.04	.72	80	.16
13	.21	50	.03	.16	95	.04	.72	69	.13
14	.20	48	.03	.14	65	.02	1.7	135	.67
15	.19	48	.02	.11	65	.01	.65	86	.15
16	.18	47	.02	.12	70	.02	.48	90	.12
17	.17	47	.02	.09	90	.02	.65	95	.17
18	.17	47	.02	.12	90	.03	.48	80	.10
19	.17	60	.03	.12	80	.03	.44	65	.08
20	.17	60	.03	.12	70	.02	4.1	188	5.4
21	.17	60	.03	.12	70	.02	13	228	10
22	.17	65	.03	.11	65	.02	2.5	40	.27
23	.16	65	.03	.11	62	.02	1.3	43	.15
24	.18	80	.04	.24	127	.11	1.3	43	.15
25	.18	80	.04	.23	110	.07	.97	43	.11
26	.16	75	.03	.16	85	.04	8.0	127	4.4
27	.16	71	.03	.18	75	.04	6.5	80	1.4
28	.16	71	.03	.47	187	.32	3.1	38	.32
29	1.4	1340	12	.23	60	.04	2.2	22	.13
30	.36	600	.58	.21	55	.04	1.6	22	.09
31	.18	270	.13	--	--	--	1.6	22	.09
TOTAL	5.82	--	13.53	4.38	--	1.41	66.35	--	58.67

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	28	.15	.80	29	.06	.70	60	.11
2	.97	31	.08	.70	29	.05	.65	60	.11
3	1.3	28	.11	.60	29	.05	.65	60	.11
4	2.2	28	.16	.52	29	.04	.58	60	.09
5	1.1	18	.05	.48	44	.06	.53	60	.09
6	.97	24	.06	.44	37	.04	.48	60	.08
7	.97	29	.08	.48	30	.04	.58	60	.09
8	.65	29	.05	.44	23	.03	.44	60	.07
9	.72	29	.06	.44	23	.03	1.2	229	1.2
10	.65	29	.05	.44	23	.03	1.1	66	.19
11	1.3	30	.12	.40	23	.02	.58	61	.10
12	.97	29	.08	.40	23	.02	.58	61	.10
13	.58	29	.05	.44	22	.03	.48	61	.08
14	.53	29	.04	.44	22	.03	.48	61	.08
15	.53	29	.04	.36	22	.02	.48	61	.08
16	.88	30	.08	.36	26	.02	1.9	199	1.6
17	2.0	21	.11	.36	26	.02	.97	86	.23
18	.88	21	.05	.32	26	.02	.65	60	.11
19	1.1	21	.06	.72	33	.07	.58	60	.09
20	.97	21	.05	.58	30	.05	.53	60	.09
21	9.1	295	12	.38	30	.03	4.2	348	7.5
22	4.0	40	.43	4.4	744	17	1.3	89	.31
23	2.5	43	.12	1.3	216	.76	.97	77	.20
24	1.7	43	.20	.88	160	.38	.88	65	.15
25	1.4	43	.17	.80	106	.23	.65	53	.09
26	1.4	61	.28	.65	80	.14	.58	42	.07
27	1.9	47	.24	.72	60	.12	.53	40	.06
28	1.6	71	.36	.72	60	.12	.53	37	.05
29	1.3	19	.07	--	--	--	.58	33	.05
30	.97	29	.08	--	--	--	14	496	38
31	.90	29	.07	--	--	--	7.8	247	6.7
TOTAL	47.94	--	15.55	19.57	--	19.51	46.16	--	57.88

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.8	85	.90	.44	40	.05	.91	138	.48
2	3.7	85	.88	.40	49	.05	.58	54	.08
3	2.4	85	.54	.52	70	.11	.48	54	.07
4	8.5	343	10	.44	49	.06	.36	110	.11
5	4.4	127	1.6	.40	49	.05	.32	115	.10
6	2.7	115	.84	.44	49	.07	.29	120	.09
7	2.0	100	.55	.36	62	.06	.26	120	.08
8	1.6	50	.21	.36	62	.06	.29	132	.10
9	5.6	215	3.5	.73	204	.52	.26	132	.09
10	2.2	140	.82	1.4	259	1.0	.21	132	.08
11	1.7	104	.48	1.3	80	.28	.18	132	.06
12	1.6	104	.44	4.8	564	18	.18	132	.06
13	1.9	104	.52	1.9	400	2.0	.17	132	.06
14	4.1	475	8.5	.97	364	.95	.16	132	.06
15	1.8	120	.58	.65	264	.46	.15	132	.05
16	1.2	253	.81	.65	164	.29	2.0	770	16
17	1.2	110	.35	.53	108	.15	.94	280	.88
18	.97	80	.21	.48	108	.14	.58	200	.31
19	.97	59	.15	.48	108	.14	.28	166	.13
20	.80	60	.13	.48	108	.14	.45	139	.17
21	.72	62	.12	.48	108	.14	.44	139	.17
22	.65	48	.08	.48	150	.20	.28	139	.11
23	.65	63	.11	.53	81	.12	2.0	373	3.5
24	.58	63	.10	.44	213	.25	.38	162	.17
25	.53	63	.09	.40	51	.06	.22	154	.09
26	.53	63	.09	.40	51	.06	.18	162	.08
27	.53	56	.08	.42	51	.06	.16	156	.07
28	.53	48	.07	.44	51	.06	1.4	363	3.2
29	.48	41	.05	.48	51	.07	.58	240	.38
30	.48	27	.03	.48	60	.08	.23	80	.05
31	--	--	--	.54	106	.21	--	--	--
TOTAL	58.82	--	32.83	22.82	--	25.89	14.92	--	26.88

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.23	41	.03	.01	42	0	.84	838	3.2
2	.12	41	.01	.33	573	2.4	.26	117	.08
3	.08	41	.01	.55	330	1.1	3.0	419	8.8
4	.11	41	.01	.28	290	.22	.32	60	.05
5	.11	41	.01	.15	265	.11	.16	40	.02
6	.11	41	.01	.13	200	.07	.16	45	.02
7	.08	41	.01	.11	139	.04	1.3	133	.56
8	.02	41	0	.11	139	.04	.26	45	.03
9	0	40	0	.12	140	.05	.21	40	.02
10	.01	50	0	.11	140	.04	.18	40	.02
11	.02	94	.01	.10	140	.04	.16	40	.02
12	.02	50	0	.10	140	.04	1.0	313	3.1
13	0	40	0	.10	140	.04	1.3	280	3.0
14	.04	38	0	.09	140	.03	.48	60	.08
15	.01	38	0	.09	140	.03	.12	38	.01
16	0	40	0	.25	350	.17	.16	40	.02
17	0	40	0	.25	311	.14	.16	40	.02
18	0	40	0	.13	227	.08	.11	35	.01
19	.30	400	.32	.11	150	.04	.12	35	.01
20	.97	200	.52	.09	100	.02	.16	50	.02
21	.97	100	.26	.10	60	.02	.23	110	.07
22	.24	74	.05	.09	45	.01	.14	40	.02
23	0	60	0	.10	100	.03	.12	35	.01
24	.01	60	0	.10	100	.03	.11	35	.01
25	0	60	0	.11	90	.03	.11	35	.01
26	.01	60	0	.11	509	.15	.11	35	.01
27	0	60	0	.09	130	.03	.11	35	.01
28	.02	150	.01	.11	125	.04	.36	234	.55
29	.11	642	1.6	.18	300	.70	.14	50	.02
30	.03	214	.02	.20	336	.40	.11	46	.01
31	.01	135	0	.12	154	.05	--	--	--
TOTAL	3.63	--	2.88	4.52	--	6.19	12.00	--	19.81

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 306.93
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 281.03

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.									
29...	1654	12	5420	50	66	79	89	94	97
FEB.									
22...	1235	10	2920	46	62	77	91	96	98
MAR.									
21...	1234	19	1670	38	51	65	79	88	94
30...	1801	30	959	38	53	64	76	83	90
30...	2200	25	758	55	72	88	96	99	100
APR.									
15...	0032	16	2836	48	65	82	92	95	99
MAY									
12...	1559	24	3750	50	65	78	88	93	98
JUNE									
16...	0448	15	2960	52	66	79	88	91	97
JULY									
29...	2258	.90	4400	64	85	95	98	99	100
AUG.									
02...	1903	1.9	5180	53	71	86	93	94	100
SEP.									
03...	1524	18	2010	36	54	66	80	91	96

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, at gaging station on right bank at upstream side of culvert on Valley Road, 1 mi (1.6 km) northwest of Enola, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--0.38 mi^2 (0.98 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1974.
Sediment records: April 1969 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum, 1,020 mg/l Oct. 29; minimum, 4 mg/l on several days during February, March, and July.
Sediment discharges: Maximum, 27 tons (24 t) Mar. 30; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 1,600 mg/l Sept. 14, 1973; minimum, 0 mg/l July 23, 28, 1971.
Sediment discharges: Maximum, 98 tons (89 t) Aug. 10, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 312.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.06	12	0	.09	23	.01	.05	20	0
2	.53	436	1.2	.07	12	0	.05	20	0
3	.18	26	.01	.06	9	0	.05	15	0
4	.11	20	.01	.06	6	0	.04	15	0
5	.08	18	.01	.06	6	0	1.4	664	5.3
6	.06	16	0	.06	6	0	.40	92	.12
7	.06	14	0	.06	6	0	.16	35	.02
8	.06	12	0	.09	30	.02	.14	25	.01
9	.06	12	0	.05	25	.01	4.9	313	9.1
10	.06	11	0	.04	20	0	.72	42	.08
11	.05	11	0	.04	18	0	.35	18	.02
12	.05	10	0	.04	16	0	.22	11	.01
13	.05	10	0	.04	14	0	.40	83	.28
14	.05	10	0	.04	13	0	.92	126	.40
15	.05	10	0	.04	13	0	.28	18	.01
16	.04	9	0	.04	10	0	.19	14	.01
17	.04	8	0	.04	8	0	.18	12	.01
18	.04	8	0	.04	8	0	.16	10	0
19	.04	7	0	.04	6	0	.16	12	.01
20	.04	7	0	.04	6	0	3.4	147	3.8
21	.03	6	0	.04	6	0	7.8	184	5.8
22	.03	6	0	.04	6	0	1.5	22	.09
23	.03	6	0	.04	6	0	1.0	18	.05
24	.04	6	0	.06	14	.01	.75	15	.03
25	.06	59	.02	.05	7	0	.53	13	.02
26	.04	18	0	.04	7	0	5.1	210	4.0
27	.03	15	0	.05	7	0	3.4	63	.60
28	.04	15	0	.27	161	.26	1.7	18	.08
29	1.7	1020	12	.11	25	.01	1.1	13	.04
30	.22	35	.02	.06	20	0	.85	12	.03
31	.10	25	.01	--	--	--	.96	15	.04
TOTAL	4.03	--	13.28	1.80	--	.32	38.86	--	29.96

SUSQUEHANNA RIVER BASIN

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.1	10	.03	.36	10	.01	.28	20	.02
2	.51	10	.02	.35	10	.01	.33	32	.03
3	1.0	20	.06	.28	10	.01	.34	12	.01
4	1.4	20	.08	.26	10	.01	.28	8	.01
5	.70	10	.02	.22	10	.01	.22	7	.01
6	.50	7	.01	.19	9	0	.19	7	0
7	.50	5	.01	.21	7	0	.19	6	0
8	.34	7	.01	.19	5	0	.16	5	0
9	.34	7	.01	.15	5	0	.77	79	.31
10	.30	7	.01	.16	4	0	.80	104	.62
11	.94	7	.02	.18	7	0	.32	12	.01
12	.71	7	.01	.16	8	0	.30	8	.01
13	.38	7	.01	.20	9	0	.24	6	.01
14	.34	7	.01	.17	8	0	.20	5	0
15	.39	10	.01	.14	7	0	.17	4	0
16	.89	74	.27	.10	7	0	1.3	126	.99
17	1.4	41	.16	.10	7	0	.61	16	.03
18	.40	20	.02	.09	7	0	.32	6	.01
19	.54	15	.02	.22	20	.03	.30	5	.01
20	.57	12	.02	.23	10	.01	.24	4	0
21	5.4	235	7.4	.14	8	0	2.7	234	4.5
22	2.0	25	.14	2.9	730	14	.75	25	.05
23	1.3	20	.06	.80	25	.05	.45	16	.02
24	.78	15	.03	.36	10	.01	.38	12	.01
25	.60	13	.02	.36	6	.01	.30	8	.01
26	.74	50	.18	.26	6	0	.30	8	.01
27	1.0	34	.12	.24	6	0	.24	10	.01
28	.81	70	.26	.22	6	0	.21	8	.01
29	.60	12	.02	--	--	--	.24	14	.01
30	.42	8	.01	--	--	--	8.6	585	27
31	.39	9	.01	--	--	--	4.6	76	1.3
TOTAL	27.29	--	9.06	9.24	--	14.16	26.33	--	35.01

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.0	60	.54	.17	7	0	.47	158	.44
2	1.8	149	.92	.17	7	0	.13	20	.01
3	1.2	16	.05	.26	28	.02	.12	18	.01
4	5.1	467	9.6	.17	6	0	.09	18	0
5	2.1	65	.42	.15	6	0	.07	16	0
6	1.2	30	.10	.15	24	.01	.06	14	0
7	.90	14	.03	.13	15	.01	.06	14	0
8	.94	129	.43	.13	10	0	.07	12	0
9	3.3	168	2.1	.45	94	.22	.06	12	0
10	1.1	300	.89	.20	9	0	.06	12	0
11	.83	404	.85	.13	7	0	.06	12	0
12	.64	125	.22	3.4	461	16	.06	12	0
13	1.1	103	.51	.95	46	.15	.05	11	0
14	1.9	766	19	.45	12	.01	.05	11	0
15	1.6	70	.42	.36	13	.01	.06	11	0
16	.75	25	.05	.27	10	.01	.69	671	7.8
17	.55	20	.03	.23	8	.01	.40	277	.92
18	.46	17	.02	.20	7	0	.06	15	0
19	.47	48	.06	.18	7	0	.05	12	0
20	.38	20	.02	.14	6	0	.05	30	.01
21	.35	20	.02	.13	6	0	.05	18	0
22	.34	20	.02	.16	37	.03	.05	14	0
23	.34	18	.02	.23	38	.03	1.1	367	2.5
24	.27	14	.01	.13	18	.01	.12	30	.01
25	.23	10	.01	.11	12	0	.10	14	0
26	.20	10	.01	.11	10	0	.07	14	0
27	.20	8	.01	.11	12	0	.06	12	0
28	.19	8	0	.19	278	.27	.79	203	1.4
29	.15	7	0	.14	20	.01	.26	30	.02
30	.13	10	0	.12	10	0	.08	12	0
31	--	--	--	.23	111	.28	--	--	--
TOTAL	30.72	--	36.36	9.95	--	17.08	5.40	--	13.12

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.11	26	.01	.02	50	0	.75	685	7.4
2	.06	15	0	.97	716	14	.16	25	.01
3	.05	12	0	.56	518	5.9	2.2	277	6.3
4	.05	12	0	.18	30	.01	.21	20	.01
5	.04	10	0	.06	30	.01	.07	15	0
6	.04	10	0	.05	45	.01	.10	11	.01
7	.04	10	0	.04	17	0	.99	75	.57
8	.04	10	0	.04	15	0	.10	15	0
9	.04	12	0	.04	15	0	.07	12	0
10	.06	100	.01	.03	15	0	.05	10	0
11	.06	30	.01	.02	16	0	.05	10	0
12	.05	15	0	.02	16	0	.54	227	3.8
13	.05	8	0	.02	16	0	.80	287	2.7
14	.03	6	0	.01	16	0	.48	50	.07
15	.03	4	0	.01	16	0	.10	18	.01
16	.01	4	0	.43	428	5.2	.07	18	0
17	.01	4	0	.10	147	.07	.06	17	0
18	.01	4	0	.05	17	0	.05	17	0
19	.01	7	0	.02	15	0	.05	14	0
20	.01	10	0	.02	15	0	.05	10	0
21	.01	8	0	.01	15	0	.10	30	.02
22	.01	8	0	.03	30	0	.05	20	0
23	.01	8	0	.02	26	0	.04	16	0
24	.06	113	.05	.02	24	0	.04	12	0
25	.03	10	0	.01	22	0	.04	8	0
26	.03	8	0	.01	20	0	.04	8	0
27	.02	8	0	.01	20	0	.03	8	0
28	.03	112	.07	.01	20	0	.19	296	.51
29	.53	779	11	.05	223	.19	.06	18	0
30	.10	90	.05	.15	222	.14	.04	8	0
31	.04	50	.01	.08	22	.01	--	--	--
TOTAL	1.67	--	11.21	3.09	--	25.54	7.58	--	21.41

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	165.96
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	226.51

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.									
29...	1614	6.0	2340	61	73	84	88	96	99
FEB.									
22...	1320	11	6800	53	69	83	93	98	99
MAR.									
21...	1200	12	1080	49	63	76	86	95	99
30...	1902	19	2160	43	55	69	81	91	96
APR.									
14...	2235	20	11600	45	60	74	88	97	99
MAY									
12...	1626	27	3230	59	72	84	92	97	98
JUNE									
16...	0517	12	13000	51	66	81	94	97	100
23...	1618	2.4	414	78	85	95	99	99	100
JULY									
29...	2140	12	20200	45	60	76	92	98	100
29...	2225	4.0	5080	64	79	90	97	99	100
29...	2336	.85	1290	78	89	94	97	98	100
AUG.									
02...	1844	11	7630	50	64	80	94	98	100
03...	2015	8.7	7560	50	65	80	94	99	100
03...	2023	7.8	7930	61	70	86	97	99	100
03...	2112	2.7	776	71	80	90	96	98	100
SEP.									
01...	1801	2.5	3530	42	59	76	90	97	100
01...	1843	2.5	6080	72	75	88	96	99	100
01...	1939	.52	2170	73	89	97	98	99	100
03...	1525	22	4270	42	56	72	87	94	98
12...	2049	5.2	2100	55	71	86	95	98	100

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.
(International Hydrological Decade River, National Stream-Quality Accounting Network, and radiochemical station)

LOCATION.--Lat 40°15'27", long 76°53'12", Dauphin County, at Walnut Street Bridge in Harrisburg, 3,700 ft (1,128 m) upstream from gaging station.

DRAINAGE AREA.--24,100 mi^2 (62,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1944 to January 1953, March to July 1956, October 1956 to September 1974.
Biological analyses: July to September 1974.
Water temperatures: May to September 1974.
Sediment records: October 1963 to September 1968, April 1970 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 295 mg/l Dec. 22; minimum daily, 2 mg/l on several days during October.
Sediment discharges: Maximum daily, 128,000 tons (116,112 t) Dec. 22; minimum daily, 43 tons (36 t) Oct. 24.

Period of record:
Sediment concentrations: Maximum daily, 879 mg/l June 23, 1972; minimum daily, 0 mg/l on many days during August and September 1964.
Sediment discharges: Maximum daily, 2,210,000 tons (2,000,000 t) June 24, 1972; minimum daily, 0 tons (0 t) on many days during August and September 1964.

REMARKS.--Chemical analyses for this station on page 314.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14500	6	235	54900	210	31100	49200	70	9300
2	14700	5	198	49200	110	14600	43400	56	6560
3	13500	3	109	45000	70	8510	37500	40	4050
4	14400	3	117	38500	43	4470	33100	28	2500
5	14400	2	78	34900	30	2830	30300	20	1640
6	13100	2	71	30600	23	1900	35000	40	3780
7	14500	3	117	28800	16	1240	63000	185	31500
8	14400	3	117	26600	12	862	61300	143	23700
9	14200	4	153	24500	8	529	58900	113	18000
10	14000	3	113	23300	6	377	79800	139	29900
11	13100	3	106	22400	6	363	102000	150	41300
12	12100	3	98	21300	5	288	101000	122	33300
13	10900	2	59	22000	5	297	83300	114	25600
14	10300	2	56	22000	6	356	67300	96	17400
15	9800	2	53	21800	8	471	57900	80	12500
16	9650	2	52	19600	6	318	51400	65	9020
17	9350	2	50	17800	5	240	46000	47	5840
18	9200	3	75	16200	4	175	40000	30	3240
19	9200	3	75	16200	4	175	36000	22	2140
20	8750	2	47	16400	3	133	31000	17	1420
21	8300	3	67	15300	3	124	53700	84	12200
22	8160	3	66	13800	3	112	161000	295	128000
23	8160	2	44	14000	4	151	164000	208	92100
24	7880	2	43	13300	3	108	128000	129	44600
25	7180	3	58	13300	3	108	101000	68	18500
26	8300	4	90	14400	5	194	82200	40	8880
27	9350	8	202	19800	40	2140	91200	45	11100
28	12400	14	469	32300	58	5060	155000	100	41900
29	13600	20	734	36700	63	6240	199000	178	95600
30	23600	50	3190	46900	74	9370	171000	123	56800
31	46100	180	22400	--	--	--	139000	70	26300
TOTAL	397080	--	29342	771800	--	92841	2552500	--	818670

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	111000	45	13500	98100	38	10100	41500	30	3360
2	92200	34	8460	81800	20	4420	39600	22	2350
3	77600	28	5870	69700	14	2630	38300	18	1860
4	66600	23	4140	60500	10	1630	38000	12	1230
5	57600	20	3110	51000	7	964	38800	14	1470
6	50300	16	2170	43500	6	705	44500	19	2280
7	44200	12	1430	39000	6	632	62600	52	8790
8	39900	10	1080	34500	7	652	70900	65	12400
9	37200	8	804	32500	6	527	70200	40	7580
10	33600	7	635	30000	8	648	95000	70	18000
11	32000	6	518	28500	7	539	131000	136	48100
12	32000	6	518	25500	7	482	121000	110	35900
13	34000	5	459	25500	8	551	96600	61	15900
14	32800	5	443	26600	9	646	77800	31	6510
15	31000	5	419	26400	7	499	63300	20	3420
16	28000	4	302	25200	7	476	53900	17	2470
17	32300	6	523	24000	6	389	46900	14	1770
18	39000	8	842	23000	6	373	44500	13	1560
19	42000	10	1130	22700	6	368	44500	12	1440
20	41500	7	784	21800	7	412	43700	12	1420
21	47200	21	2680	19400	8	419	41800	10	1130
22	74500	68	13700	23100	10	624	44800	12	1450
23	105000	93	26400	30300	28	2290	51700	25	3490
24	112000	75	22700	74100	150	30000	53000	20	2860
25	110000	46	13700	96000	235	60900	49500	18	2410
26	108000	35	10200	74900	190	38400	47200	17	2170
27	90200	26	6330	58700	115	18200	44500	16	1920
28	80900	22	4810	47800	65	8390	40700	14	1540
29	96000	39	10100	--	--	--	38300	12	1240
30	120000	80	25900	--	--	--	37700	10	1020
31	113000	80	24400	--	--	--	58000	34	5320
TOTAL	2011600	--	208057	1214100	--	186866	1769800	--	202360

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	86900	88	20600	25400	15	1030	20100	6	326
2	89200	45	10800	25400	13	892	21800	10	589
3	98400	32	8500	29000	12	940	23300	14	881
4	151000	74	30200	30000	11	891	22400	11	665
5	188000	150	76100	30300	10	818	20300	7	384
6	180000	140	68000	29800	10	805	18000	6	292
7	150000	97	39300	28300	9	688	16000	4	173
8	121000	75	24500	27600	8	596	14900	5	201
9	103000	59	16400	26400	9	642	14000	5	189
10	96600	40	10400	25400	10	686	13100	4	141
11	86400	23	5370	26800	14	1010	12600	6	204
12	76900	10	2080	27800	15	1130	12200	7	231
13	75800	10	2050	40800	46	5070	12100	5	163
14	86200	18	4190	70100	92	17400	11900	6	193
15	94000	42	10700	92000	100	24800	10800	4	117
16	100000	60	16200	82900	78	17500	12100	10	327
17	108000	108	31500	66300	56	10000	18400	35	1740
18	89800	97	23500	53000	44	6300	23800	70	4500
19	73900	80	16000	45300	38	4650	23800	53	3410
20	62000	60	10000	41000	33	3650	21800	39	2300
21	54400	40	5880	40700	37	4070	19800	34	1820
22	49200	25	3320	36400	30	2950	17400	29	1360
23	43900	23	2730	32800	22	1950	16600	25	1120
24	41500	22	2470	30000	17	1380	16800	23	1040
25	38000	20	2050	27100	14	1020	17000	21	964
26	35700	18	1740	26600	11	790	16800	16	726
27	34100	16	1470	24900	9	605	17600	13	618
28	31600	14	1190	24000	9	583	18800	10	508
29	29800	15	1210	22700	8	490	19600	8	423
30	27300	18	1330	21300	8	460	20900	11	621
31	--	--	--	19800	6	321	--	--	--
TOTAL	2502600	--	4[illegible]780	1129900	--	114117	524700	--	26226

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCENTRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCENTRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCENTRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	24600	30	1990	16400	13	576	10100	20	545
2	51600	230	32000	14900	6	241	15800	32	1370
3	64300	142	24700	15300	7	289	23600	50	3190
4	48900	70	9240	16600	10	448	26600	72	5170
5	37000	47	4700	16600	9	403	36200	100	9770
6	30000	32	2590	14400	10	389	39900	113	12200
7	28300	24	1830	12900	11	383	32000	74	6390
8	32600	33	2900	11600	8	251	28300	50	3820
9	28300	26	1990	10400	6	168	24200	33	2160
10	23600	20	1270	9800	5	132	20500	24	1330
11	21800	14	824	9650	7	182	16800	18	816
12	20100	11	597	9050	6	147	15500	15	628
13	16800	8	363	8450	9	205	14500	13	509
14	14700	6	238	8020	8	173	14900	15	603
15	13600	4	147	7600	11	226	15500	18	753
16	13300	5	180	7600	10	205	14700	16	635
17	12600	8	272	7180	8	155	14000	14	529
18	13500	6	219	6900	13	242	13300	15	539
19	12200	9	296	6780	10	183	12200	13	428
20	11100	5	150	6280	12	203	11900	11	353
21	10400	4	112	6280	15	254	11400	12	369
22	9960	6	161	6150	13	216	11400	12	369
23	9200	5	124	6280	10	170	16400	16	708
24	9050	10	244	6150	12	199	21300	22	1270
25	8750	8	189	6020	9	146	20500	17	941
26	8600	9	209	5780	11	172	19200	14	726
27	8900	7	168	5650	10	153	18800	12	609
28	9050	6	147	5320	10	144	17000	10	459
29	9350	9	227	5210	9	127	15300	12	496
30	13300	12	431	6400	10	173	15500	10	419
31	16200	18	787	7320	13	257	--	--	--
TOTAL	631660	--	89295	282970	--	7212	567300	--	58104

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	14356010
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	2282870

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN.					
23...	1340	109300	79	31000	84
23...	1341	109300	79	23300	78
23...	1342	109300	60	17700	75
23...	1343	109300	98	28900	69
23...	1344	109300	96	28300	92
23...	1345	109300	62	18300	92
FEB.					
26...	1330	75800	293	56900	97
26...	1331	75800	368	75300	97
26...	1332	75800	285	58300	98
26...	1333	75800	100	20500	93
26...	1334	75800	44	9010	45
26...	1335	75800	28	5730	23
MAR.					
27...	1050	44500	23	2760	88
27...	1100	44500	25	3000	82
27...	1105	44500	19	2280	88
27...	1130	44500	15	1800	74
27...	1135	44500	9	1080	56
27...	1140	44500	7	841	72
APR.					
24...	1430	41000	36	3990	90
24...	1440	41000	42	4650	92
24...	1445	41000	25	2770	78
24...	1500	41000	9	996	93
24...	1505	41000	8	886	80
24...	1509	41000	4	443	90
MAY					
20...	1400	40700	42	4620	81
20...	1405	40700	49	5390	85
20...	1415	40700	21	2310	77
20...	1420	40700	21	2310	60
20...	1425	40700	35	3850	86
20...	1430	40700	31	3410	78
JUNE					
19...	1000	24250	107	7010	90
19...	1025	24250	70	5480	88
19...	1055	24250	42	3290	86
19...	1120	24250	29	2270	86
19...	1140	24250	36	2820	87
19...	1155	24250	31	2430	86
JULY					
24...	1500	9050	10	244	46
AUG.					
21...	1430	6280	15	254	94
SEP.					
18...	0900	13300	11	395	94
18...	0910	13300	11	395	95
18...	0920	13300	5	180	94
18...	0935	13300	3	108	92
18...	0955	13300	4	144	94
18...	1015	13300	14	503	93

01576500 CONESTOGA RIVER AT LANCASTER, PA.
(Formerly published as Conestoga Creek at Lancaster, Pa.)

LOCATION.--Lat 40°03'00", long 76°16'39", Lancaster County, at raw water intake, Lancaster, 500 ft (152 m) upstream from gaging station at Penn Central Railroad Bridge, and 0.8 mi (1.3 km) east of Lancaster. Sediment samples are collected from State Highway 340 bridge at Bridgeport, 1 mi (1.6 km) downstream from gaging station.

DRAINAGE AREA.--324 mi^2 (839 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, October 1958 to September 1972, April to September 1974.
Water temperatures: October 1947 to September 1950, October 1958 to September 1970, April to September 1974.
Sediment records.--October 1961 to September 1964 (partial-record station), October 1971 to September 1972 (partial-record station), April to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 800 mg/l Apr. 15; minimum daily, 5 mg/l Apr. 12.
Sediment discharges: Maximum daily, 3,870 tons (3,510 t) Apr. 15; minimum daily, 6.70 tons (6.08 t) Sept. 21.

Period of record:
Sediment concentrations: Maximum daily, 800 mg/l Apr. 15, 1974; minimum daily, 5 mg/l Apr. 12, 1974.
Sediment discharges: Maximum daily, 3,870 tons (3,510 t) Apr. 15, 1974; minimum daily, 6.70 tons (6.08 t) Sept. 21, 1974.

REMARKS.--Chemical analyses for this station on page 326. Unpublished records of daily specific conductance and water temperatures available at Harrisburg office.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1010	100	273	436	36	42	294	45	36
2	852	33	76	414	35	39	313	46	39
3	802	8	17	465	40	50	298	48	39
4	1620	180	787	484	33	43	266	53	38
5	1560	130	548	413	21	23	249	45	30
6	1370	105	388	391	20	21	235	41	26
7	1020	30	83	408	20	22	226	37	23
8	927	7	18	377	23	23	220	39	23
9	1380	80	298	372	32	32	222	64	38
10	1100	50	149	583	50	79	213	66	38
11	857	8	19	464	38	48	214	65	38
12	788	5	11	574	50	77	195	53	28
13	1260	140	476	1730	560	2620	188	70	36
14	1300	165	579	682	78	144	201	100	54
15	1790	800	3870	546	48	71	204	85	47
16	1050	170	482	483	33	43	222	61	37
17	911	70	172	444	37	44	305	65	54
18	845	47	107	414	48	54	218	54	32
19	796	45	97	383	56	58	191	52	27
20	762	40	82	362	45	44	181	53	26
21	699	35	66	340	50	46	175	43	20
22	668	33	60	327	55	49	173	55	26
23	676	40	73	383	56	58	262	80	57
24	630	30	51	388	62	65	395	65	69
25	585	25	39	328	80	71	277	46	34
26	539	26	38	305	54	44	256	40	28
27	509	27	37	289	45	35	220	38	23
28	486	24	31	300	39	32	218	47	28
29	473	25	32	289	33	26	314	49	42
30	455	35	43	290	36	28	259	43	30
31	--	--	--	280	37	28	--	--	--
TOTAL	27720	--	9002	13944	--	4059	7204	--	1066

01576500 CONESTOGA RIVER AT LANCASTER, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	216	45	26	136	32	12	120	66	21
2	194	37	19	121	52	17	260	64	45
3	177	38	18	118	54	17	244	67	44
4	169	42	19	211	74	42	659	138	246
5	164	44	19	1230	580	1930	210	87	49
6	172	37	17	249	110	74	141	76	29
7	170	33	15	172	90	42	367	115	114
8	156	37	16	152	56	23	317	96	82
9	151	34	14	149	49	20	184	81	40
10	145	45	18	139	44	17	155	90	38
11	145	42	16	136	40	15	136	92	34
12	138	44	16	134	40	14	126	95	32
13	130	28	9.8	119	41	13	134	80	29
14	132	30	11	119	38	12	166	88	39
15	128	26	9.0	112	36	11	155	89	37
16	127	22	7.5	112	40	12	114	55	17
17	116	35	11	141	68	26	105	47	13
18	115	29	9.0	405	65	71	98	70	19
19	115	36	11	163	48	21	88	57	14
20	113	50	15	131	44	16	84	39	8.8
21	116	51	16	121	31	10	86	29	6.7
22	126	48	16	294	170	135	124	38	13
23	98	43	11	373	400	403	105	35	9.9
24	115	38	12	128	105	36	86	47	11
25	138	32	12	119	60	19	84	62	14
26	140	40	15	119	45	14	110	53	16
27	122	36	12	120	85	28	130	33	12
28	132	45	16	110	75	22	240	90	58
29	180	56	27	120	85	28	400	90	97
30	250	30	20	150	84	34	180	49	24
31	196	31	16	150	76	31	--	--	--
TOTAL	4586	--	469.3	6053	--	3165	5408	--	1212.4

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 143763
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 18973.7

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
MAR. 31...	1235	2220	5.0	538	3220	--	54
APR. 15...	1035	2550	13.0	1340	9230	42	56
AUG. 06...	1050	239	2.5	110	71	--	76

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
MAR. 31...	71	87	93	97	98	100
APR. 15...	74	88	97	100	--	--
AUG. 06...	--	--	--	100	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01516820 TIOGA RIVER AT LAMBS CREEK, PA. (LAT 41 50 29 LONG 077 06 13)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 06...	1100	216	336	196

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 09...	1430	73	4	.79
NOV. 08...	0910	149	16	6.4
DEC. 13...	1145	392	47	50
JAN. 10...	1015	--	14	--
FEB. 13...	1315	--	42	--
MAR. 13...	1315	--	23	--
APR. 02...	1130	1250	153	516
MAY 01...	1215	285	20	15
JUNE 12...	1230	96	14	3.6
JULY 17...	1630	40	1	.11
AUG. 14...	1245	29	2	.16

01517500 MILL CREEK NEAR TIOGA, PA. (LAT 41 52 50 LONG 077 07 05)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 05...	1645	6.3	12	.20

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 11...	0915	10	6	.16
NOV. 07...	1535	25	4	.27
JAN. 09...	1450	--	9	--
FEB. 13...	1400	--	19	--
MAR. 13...	1445	190	6	3.1
APR. 02...	1330	473	10	13
MAY 01...	1345	86	1	.23
JUNE 12...	1345	28	13	.98
JULY 17...	1545	6.5	1	.02
AUG. 14...	1400	6.9	3	.06

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01518000 TIOGA RIVER AT TIOGA, PA. (LAT 41 54 30 LONG 077 07 47)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 06...	1000	197	93	49

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 09...	1530	82	9	2.0
NOV. 06...	1145	190	29	15
DEC. 11...	1415	868	44	103
JAN. 08...	1125	E230	14	8.7
FEB. 13...	1435	E200	13	7.0
MAR. 13...	1600	699	25	47
APR. 02...	1445	1780	113	543
MAY 01...	1445	413	23	26
JUNE 12...	1445	133	17	6.1
JULY 17...	1515	65	26	4.6
AUG. 14...	1500	35	6	.57
SEP. 12...	1445	30	9	.73

01518400 CROOKED CREEK AT MIDDLEBURY CENTER, PA. (LAT 41 50 35 LONG 077 16 30)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 05...	0915	24	8	.52

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 10...	0930	16	14	.60
NOV. 07...	0820	39	3	.32
JAN. 09...	1545	--	6	--
FEB. 14...	1715	--	4	--
APR. 04...	0915	453	68	83
MAY 03...	0915	50	1	.13
JUNE 14...	0845	8.0	6	.13
AUG. 16...	0830	3.3	6	.05

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01518500 CROOKED CREEK AT TIOGA, PA. (LAT 41 54 08 LONG 077 08 55)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 05...	1045	47	64	8.1

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 09...	1615	35	9	.85
NOV. 06...	1300	61	56	9.2
DEC. 11...	1300	292	18	14
JAN. 08...	1225	E66	7	1.2
MAR. 13...	1800	89	24	5.8
APR. 02...	1625	811	289	633
MAY 01...	1545	132	10	3.6
JUNE 12...	1550	26	17	1.2
AUG. 14...	1550	11	30	.89
SEP. 12...	1620	10	16	.44

01518700 TIOGA RIVER AT TIOGA JUNCTION, PA. (LAT 41 57 27 LONG 077 06 58)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 05...	1540	75	16	3.2

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 09...	1700	131	16	5.7
NOV. 06...	1350	281	21	16
DEC. 11...	1500	1300	41	128
JAN. 08...	1335	E332	21	19
FEB. 13...	1620	E300	34	28
MAR. 13...	1715	883	27	64
APR. 02...	1545	2900	894	7000
MAY 01...	1650	610	57	94
JUNE 12...	1730	178	6	2.9
JULY 17...	1300	93	1	.25
AUG. 14...	1645	51	4	.56

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01518850 CONANESQUE RIVER AT WESTFIELD, PA. (LAT 41 54 56 LONG 077 34 18)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP.				
04...	1330	6.8	16	.29

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
10...	1625	7.7	2	.04
NOV.				
07...	1000	28	1	.08
JAN.				
09...	1230	--	2	--
FEB.				
14...	0945	--	6	--
APR.				
03...	0830	272	21	15
MAY				
02...	0900	51	2	.28
JUNE				
13...	0920	8.0	1	.02
JULY				
18...	0920	7.4	0	.00
AUG.				
15...	0930	3.1	4	.03

01518860 MILL CREEK AT WESTFIELD, PA. (LAT 41 55 15 LONG 077 32 07)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP.				
04...	1445	5.0	10	.13

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
10...	1540	4.2	26	.29
NOV.				
07...	1045	9.5	10	.26
JAN.				
09...	1155	--	5	--
MAR.				
14...	1035	23	27	1.7
APR.				
03...	0940	59	25	4.0
MAY				
02...	1000	9.5	3	.08
JUNE				
13...	1030	1.2	2	.01
JULY				
18...	0955	2.0	0	.00
AUG.				
15...	1030	2.0	4	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01518870 COWNESQUE RIVER AT COWANESQUE, PA. (LAT 41 55 33 LONG 077 31 18)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 04...	1545	15	11	.45

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 10...	1445	16	3	.13
NOV. 07...	1140	50	1	.13
JAN. 09...	1115	--	2	--
FEB. 14...	1045	--	6	--
MAR. 14...	1130	170	10	4.6
APR. 03...	1025	540	32	47
MAY 02...	1100	76	1	.21
JUNE 13...	1130	12	2	.06
JULY 18...	1030	12	2	.06
AUG. 15...	1120	7.6	10	.21

01519000 TROUPS CREEK AT KNOXVILLE, PA. (LAT 41 58 05 LONG 077 26 55)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP. 04...	1645	6.5	13	.23

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 10...	1320	5.3	5	.07
NOV. 07...	1310	22	4	.24
JAN. 09...	1025	--	3	--
FEB. 14...	1125	--	15	--
MAR. 14...	1745	109	69	20
APR. 03...	1145	312	63	53
MAY 02...	1230	39	1	.11
JUNE 13...	1230	5.6	1	.02
JULY 18...	1100	3.7	0	.00
AUG. 15...	1240	2.6	4	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01519500 COWANESQUE RIVER AT NELSON, PA. (LAT 41 58 25 LONG 077 14 35)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP.				
05...	1140	55	55	8.2

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
10...	1100	48	2	.26
NOV.				
07...	1415	129	2	.70
JAN.				
09...	0920	--	2	--
FEB.				
14...	1330	--	15	--
MAR.				
14...	1615	319	11	9.5
APR.				
03...	1400	1430	31	120
MAY				
02...	1630	190	1	.51
JUNE				
13...	1415	32	6	.52
JULY				
18...	1415	29	1	.08
AUG.				
15...	1355	17	8	.37

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA. (LAT 41 59 04 LONG 077 09 06)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP.				
05...	1340	70	51	9.6

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.				
06...	1510	148	9	3.6
JAN.				
08...	1545	E170	5	2.3
MAR.				
14...	1450	317	22	19
APR.				
03...	1625	1400	52	197
MAY				
02...	1530	215	2	1.2
JUNE				
13...	1535	E42	2	.23
JULY				
18...	1340	29	2	.16
AUG.				
15...	1500	17	5	.23

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01537700 SUSQUEHANNA RIVER AT HUNLOCK CREEK, PA. (LAT 41 11 19 LONG 076 05 13)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
23...	1400	2060	14	78
NOV.				
28...	1030	8830	45	1070
DEC.				
27...	1030	52100	60	8440
JAN.				
24...	1310	38400	97	10100
FEB.				
14...	1245	20100	53	2880
27...	1230	21700	28	1640
MAR.				
07...	1345	42200	113	12900
28...	1245	16700	41	1850
APR.				
10...	1230	39200	40	4230
25...	1300	17000	23	1060
MAY				
07...	1315	9900	9	241
21...	1210	16200	45	1970
JUNE				
06...	1230	5770	31	4830
20...	1245	5600	34	514
JULY				
02...	1030	15200	78	3200
25...	1415	2890	16	125
AUG.				
08...	1315	2980	16	129
22...	1300	1720	21	.98
SEP.				
05...	1330	8700	57	1340
19...	1300	4050	25	273

SUSQUEHANNA RIVER BASIN

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA. (LAT 41 24 06 LONG 078 01 28)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.					
07...	0730	343	--	1	.93
08...	0730	337	--	1	.91
28...	0800	991	--	1	2.7
FEB.					
05...	0800	461	--	8	10
11...	0800	207	--	1	.56
MAR.					
07...	0800	1100	--	1	3.0
08...	0800	1150	--	1	3.1
09...	0800	1960	--	14	74
09...	1230	2370	--	41	262
10...	0900	2610	--	40	282
10...	1330	2460	--	22	146
10...	1500	2690	--	22	160
11...	0800	3180	--	12	103
11...	1230	3180	--	6	52
11...	1500	3180	--	10	86
12...	0800	2400	--	4	26
12...	1230	2400	--	2	13
12...	1500	2400	--	5	32
13...	0730	1210	--	3	9.8
18...	0800	626	--	8	14
25...	0730	499	--	2	2.7
APR.					
01...	0800	1060	--	3	8.6
03...	0800	3480	--	32	301
03...	1230	3000	--	22	178
03...	1500	2990	--	20	161
04...	0700	3410	--	32	295
04...	0800	3300	--	16	143
05...	0730	3430	--	10	93
05...	1230	3730	--	22	222
05...	1530	3730	--	39	393
07...	0730	312	--	3	2.5
08...	0800	1190	--	20	64
15...	0730	1220	--	5	16
15...	1230	1500	--	6	24
16...	0730	1510	--	7	29
17...	0730	1270	--	3	10
22...	0730	461	--	1	1.2
MAY					
06...	0730	446	10.0	5	6.0
13...	0730	2480	10.5	16	107
13...	1230	2900	--	12	94
MAY					
13...	1530	2920	--	16	126
14...	0730	2480	--	6	40
14...	1230	2480	--	4	27
15...	0730	1360	--	1	3.7
16...	0730	1050	--	3	8.5
17...	0730	795	--	2	4.3
20...	0730	284	15.5	3	2.3
21...	0730	446	--	3	3.6
22...	0730	221	--	4	2.4
23...	0730	251	--	4	2.7
24...	0730	300	--	5	4.1
JUNE					
03...	0730	110	17.0	1	.30
10...	0730	79	20.5	9	1.9
17...	0730	403	20.0	9	9.8
24...	0730	101	18.5	6	1.6
JULY					
01...	1235	4510	--	81	986
01...	1530	4530	--	108	1320
01...	1930	3340	13.0	131	1180
02...	1230	4080	--	83	914
02...	1930	4080	--	17	187
03...	1930	1940	--	7	37
04...	1040	197	--	6	3.2
05...	0730	6620	--	8	143
08...	0730	226	--	9	5.5
09...	0730	231	--	5	3.1
15...	0730	251	22.0	9	6.1
22...	0730	67	21.0	10	1.8
23...	0800	1460	--	4	16
29...	0730	70	21.0	6	1.1
AUG.					
05...	0730	79	22.0	7	1.5
12...	0730	87	22.0	9	2.1
19...	0730	98	22.0	7	1.9
26...	0730	148	22.0	8	3.2
SEP.					
03...	0730	376	--	9	9.1
03...	1230	376	--	11	11
04...	0730	1060	--	22	63
04...	1230	796	--	10	2.1
09...	0730	193	14.5	64	33
16...	0730	98	18.0	6	1.6
30...	0730	168	11.0	6	2.7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA. (LAT 41 23 22 LONG 077 41 28)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.				
01...	1400	320	14	12
20...	1130	40	1	.11
DEC.				
11...	1145	162	3	1.3
JAN.				
16...	1130	50	1	.12
FEB.				
27...	1230	130	4	1.4
MAR.				
12...	1200	330	17	15
APR.				
22...	1530	107	2	.58
MAY				
29...	1400	43	1	.12
JUNE				
25...	1415	34	3	.28
25...	1535	45	7	.85
25...	1630	56	9	1.4
25...	1740	62	9	1.5
25...	1930	59	5	.80
JULY				
10...	1415	46	1	.12
AUG.				
28...	1535	22	8	.48
28...	1620	28	16	1.2
SEP.				
18...	1145	19	1	.05

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA. (LAT 40 51 15 LONG 076 48 21)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG.				
07...	1115	8050	14	304
22...	1030	15900	562	24100
SEP.				
19...	1030	17200	140	6500

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA. (LAT 40 50 04 LONG 076 49 37)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.				
23...	1100	4240	7	80
NOV.				
28...	1440	29200	37	2920
DEC.				
27...	1545	86600	55	12900
JAN.				
24...	1000	82600	58	12900
FEB.				
14...	1015	17900	13	628
27...	0935	45000	47	5710
MAR.				
07...	1000	64400	68	11800
28...	1000	32500	17	1490
APR.				
10...	0930	74700	41	8270
25...	1000	29000	19	1490
MAY				
07...	1000	23800	9	578
21...	0900	33700	38	3460
JUNE				
06...	0930	12800	12	415
20...	1000	16500	37	1650
JULY				
02...	1415	60800	182	29900
25...	1030	6290	5	85
AUG.				
08...	1005	6600	7	125
22...	0930	4140	11	123
SEP.				
05...	1000	34000	91	8350
19...	0945	9580	14	362

01563210 RAYSTOWN BRANCH JUNIATA RIVER AT ARDENHEIM, PA. (LAT 40 27 17 LONG 077 59 00)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.				
20...	0845	72	2	.39

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°24'19", long 79°52'53", Allegheny County, at Rankin Bridge, 1.7 mi (2.7 km) downstream from gaging station.

DRAINAGE AREA.--7,340 mi^2 (19,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1974.
Biological analyses: January 1973 to September 1974.
Water temperatures: January 1973 to September 1974.
Sediment records: January 1973 to September 1974.

EXTREMES.--1973-74:
Sediment concentrations: Maximum daily, 638 mg/l Jan. 13; minimum daily, 7 mg/l Oct. 24.
Sediment discharges: Maximum daily, 210,000 tons (190,512 t) Jan. 12; minimum daily, 46 tons (42 t) Aug. 25.

Period of record:
Sediment concentrations: Maximum daily, 638 mg/l Jan. 13, 1974; minimum daily, 6 mg/l Mar. 31, May 24, Sept. 6, 1973.
Sediment discharges: Maximum daily, 210,000 tons (190,512 t) Jan. 12, 1974; minimum daily, 40 tons (36 t) Sept. 1, 5, 1973.

REMARKS.--Chemical analyses for this station on page 343.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9890	38	1010	19500	44	2320	22400	69	4170
2	8620	25	582	21200	52	2980	22900	43	2660
3	9890	34	908	16600	46	2060	19900	52	2740
4	10100	24	654	9890	47	1260	19900	21	1130
5	6990	25	472	8400	27	612	18800	22	1120
6	5690	19	292	8680	15	352	10700	18	520
7	4630	20	250	9540	17	438	9250	17	425
8	4840	20	261	8910	21	505	6790	18	330
9	5270	19	270	8910	22	529	6790	17	312
10	7290	21	413	10500	16	454	8910	15	361
11	5660	20	306	9830	12	318	8850	15	358
12	5100	22	303	9710	12	315	8850	15	358
13	4630	22	275	8960	12	290	9660	18	469
14	3440	20	186	6700	12	217	27800	48	3600
15	3870	14	146	7900	15	320	33600	54	4900
16	4310	9	105	10200	15	413	22900	45	2780
17	3990	15	162	12500	14	473	18500	15	749
18	4190	12	136	10600	14	408	16600	20	896
19	4150	12	134	10800	12	350	14800	20	799
20	3130	11	93	10800	13	379	15000	19	770
21	2720	15	110	13300	12	431	33800	20	1830
22	3610	17	166	11300	11	336	39800	19	2040
23	3910	12	127	8230	9	200	29600	27	2160
24	3260	7	62	10700	9	260	27700	69	5160
25	3230	10	87	9660	10	261	26200	80	5660
26	2840	15	115	11400	11	339	26800	67	4850
27	3000	12	97	15600	14	590	52500	51	7230
28	2720	20	147	29800	36	2900	57800	96	15000
29	5990	33	534	43400	53	6210	37600	124	12600
30	12300	37	1230	28400	53	4060	33100	113	10100
31	15300	35	1450	--	--	--	32500	97	8510
TOTAL	174560	--	11083	402120	--	30580	720300	--	104637

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	30600	79	6530	15200	23	944	12800	15	518
2	26400	75	5350	14300	27	1040	15100	15	612
3	24500	64	4230	10800	25	729	24000	18	1170
4	40100	44	4760	11000	15	446	26100	38	2680
5	43600	96	11300	12200	13	428	23400	44	2780
6	30700	84	6960	12400	14	469	20400	41	2260
7	25900	40	2800	14100	14	533	18400	27	1340
8	22000	30	1780	17500	14	662	21000	25	1420
9	21100	30	1710	14800	14	559	23800	27	1740
10	31900	62	5340	12600	15	510	17900	46	2220
11	99400	524	141000	11500	16	497	19400	54	2830
12	123000	632	210000	11600	16	501	21000	46	2610
13	58400	638	101000	11600	14	438	19500	50	2630
14	37200	310	31100	14500	18	705	16700	53	2390
15	34700	188	17600	20800	20	1120	15000	40	1620
16	33000	140	12500	19000	16	821	12500	14	473
17	31000	80	6700	13600	16	588	13100	13	460
18	27800	52	3900	12000	20	648	13200	32	1140
19	24200	58	3790	12800	20	691	13300	22	790
20	21600	49	2860	13800	18	671	14300	27	1040
21	18200	22	1080	16800	23	1040	19600	18	953
22	26800	20	1450	14600	23	907	30900	13	1080
23	27000	25	1820	14700	37	1470	25000	48	3240
24	23900	47	3030	13600	135	4960	19700	56	2980
25	21300	58	3340	11900	160	5140	14400	47	1830
26	20400	35	1930	12900	159	5540	13500	17	620
27	16900	28	1280	12700	90	3090	13900	13	488
28	14800	28	1120	13500	22	802	11300	15	458
29	24300	24	1570	--	--	--	10900	17	500
30	21400	13	751	--	--	--	9740	11	289
31	19000	15	770	--	--	--	7240	10	195
TOTAL	1021100	--	599351	386600	--	35949	537000	--	45356

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8520	10	230	4520	10	122	29600	158	12600
2	11700	9	284	3820	9	93	47000	166	21100
3	13200	31	1100	6030	9	147	64400	155	27000
4	22900	133	8220	10600	10	286	47600	145	18600
5	36700	132	13100	11900	9	289	34500	149	13900
6	33400	122	11000	9520	9	231	29100	157	12300
7	28000	60	4540	7580	12	246	24900	159	10700
8	21800	17	1000	7120	13	250	13100	75	2650
9	28200	25	1900	7870	13	276	8780	52	1230
10	33200	41	3680	6580	13	231	9020	48	1170
11	28500	41	3150	7050	12	228	7260	36	706
12	25200	38	2590	18400	28	1390	6680	25	451
13	22100	22	1310	51100	250	34500	4480	20	242
14	23300	32	2010	29200	244	19200	4140	17	190
15	21100	17	968	19500	242	12700	5050	18	245
16	18700	16	808	15200	91	3730	5910	15	239
17	14800	16	639	13700	31	1150	8940	15	362
18	12400	18	603	17500	181	8550	9290	16	401
19	10800	21	612	17000	191	8770	6590	16	285
20	9150	17	420	11600	122	3820	5380	12	174
21	7220	15	292	9380	33	836	9440	22	561
22	6520	12	211	8230	33	733	32800	99	8770
23	11100	11	330	10400	30	842	48300	255	33300
24	10600	11	315	12300	28	930	90300	500	122000
25	8240	12	267	11500	23	714	51400	450	62500
26	7610	13	267	10000	21	567	35000	238	22500
27	5970	14	226	8310	23	516	29600	210	16800
28	6070	15	246	8140	23	505	24300	202	13300
29	6500	14	246	7410	15	300	17400	113	5310
30	6750	11	200	12500	34	1150	13700	52	1920
31	--	--	--	14500	33	1290	--	--	--
TOTAL	500250	--	60764	388460	--	104592	723960	--	411506

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21900	62	3670	3680	20	199	10100	26	709
2	18800	88	4470	3610	18	175	14100	122	4640
3	11700	33	1040	3720	16	161	15500	118	4940
4	8940	44	1060	2630	16	114	19500	98	5160
5	8050	22	478	2720	16	118	14300	50	1930
6	9590	18	466	2570	14	97	12200	31	1020
7	8200	23	509	2390	12	77	11300	33	1010
8	7150	24	463	2480	13	87	10700	30	867
9	6110	26	429	2900	12	94	11000	22	653
10	6300	25	425	2780	11	83	8520	25	575
11	6840	45	831	2210	10	60	6000	17	275
12	5600	46	696	2050	11	61	4510	18	219
13	3960	42	449	3330	16	144	5110	20	276
14	3780	37	378	2570	36	250	15500	42	1760
15	4270	24	277	2630	24	170	15100	47	1920
16	3950	26	277	2390	28	181	9030	54	1320
17	3630	24	235	3020	11	90	7920	18	385
18	3680	21	209	2300	15	93	6680	14	253
19	3220	19	165	3080	20	166	5490	15	222
20	3580	20	193	2750	13	97	5320	16	230
21	3700	19	190	3180	14	120	7300	15	296
22	2800	15	113	2620	10	71	11200	14	423
23	3070	15	124	2830	11	84	8210	14	310
24	4640	29	363	3110	10	84	6700	13	235
25	3510	23	218	1900	9	46	5230	14	198
26	3420	9	83	2280	9	55	4690	14	177
27	3340	12	108	2620	10	71	4560	13	160
28	3060	20	165	2900	9	70	3520	13	124
29	4100	36	399	2930	10	79	3460	12	112
30	5040	61	830	7910	9	192	4470	10	121
31	4910	58	769	10900	10	294	--	--	--
TOTAL	190840	--	20082	98990	--	3683	267220	--	30520

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 5411680
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1458103

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT. 23...	1030	2900	12	84	90
NOV. 06...	0945	7700	15	312	76
DEC. 18...	1000	14800	22	879	90
JAN. 22...	1000	27700	19	1420	96
FEB. 13...	0930	11000	15	446	89
MAR. 25...	0930	12000	36	1170	50
APR. 15...	1000	20200	19	1040	96
MAY 17...	1000	13500	19	693	81
JUNE 24...	0900	97500	464	122000	90
24...	1130	98200	436	116000	92
JULY 24...	0930	4030	20	218	68
AUG. 19...	0930	3120	16	135	77
SEP. 11...	1005	5800	10	157	93

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JUNE 24...	1130	45	63	79	88	97	98	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03045000 LOYALHANNA CREEK AT KINGSTON, PA. (LAT 40 17 33 LONG 079 20 27)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
07...	1200	31	10	.84
10...	1100	13	6	.21
14...	1100	15	6	.24
21...	1300	14	8	.30
28...	1000	11	18	.53
NOV.				
04...	1100	148	6	2.4
10...	1700	71	3	.58
26...	1500	565	172	262
27...	1100	436	6	7.1
DEC.				
02...	1630	245	3	2.0
09...	1130	172	6	2.8
16...	1330	312	4	3.4
24...	1500	414	5	5.6
26...	1100	1100	12	36
31...	1030	505	8	11
JAN.				
06...	1500	373	6	6.0
13...	1300	1030	18	50
20...	1230	700	8	15
25...	1100	510	9	12
27...	1130	432	9	10
FEB.				
03...	1300	276	5	3.7
10...	1630	228	6	3.7
17...	1100	154	7	2.9
24...	1600	331	6	5.4
MAR.				
03...	1600	535	11	16
10...	1200	1280	50	173
17...	1900	445	9	11
24...	1130	472	7	8.9
25...	1200	335	5	4.5
31...	1230	418	6	6.8
APR.				
07...	1800	565	9	14
13...	1100	1960	19	100
14...	1900	946	24	61
21...	1900	210	7	4.0
25...	1130	490	6	7.9
28...	1100	319	4	3.4
MAY				
04...	1800	276	5	3.7
12...	1700	2790	47	354
19...	1700	327	8	7.1
25...	1130	327	4	3.5
26...	1100	284	4	3.1
28...	0900	195	6	3.2
JUNE				
03...	1630	440	16	19
09...	1700	130	27	9.5
19...	1630	88	47	11
23...	1630	1210	271	885
25...	1100	335	14	13
26...	1100	256	18	12
30...	2000	122	8	2.6
JULY				
07...	0930	323	10	8.7
14...	1630	102	15	4.1
21...	1630	65	9	1.6
25...	1100	79	14	3.0
28...	1530	51	14	1.9
AUG.				
04...	1600	224	35	21
11...	1600	39	13	1.4
18...	1930	29	6	.47
25...	1600	10	8	.22
SEP.				
03...	1230	952	202	519
08...	1900	117	9	2.8
15...	1700	486	15	20
29...	1700	198	10	5.3

INDEX

Type of data is shown by page number under appropriate letters:
(C) Chemical, (B) Biological (T) Water Temperature, (S) Sediment.

	Page	
	CBT	S
Allegheny River at New Kensington	341	--
Applemans Run above Light Street	248	397
below Light Street	249	399
Ardenheim, Raystown Branch Juniata River at	294	454
Atglen, Octoraro Creek near	332	--
Valley Creek near	332	--
Avondale, White Clay Creek near	202	--
Bakersville, Laurel Hill Creek near	358	--
Bald Eagle Creek at Blanchard	263	--
near Milesburg	261	--
Back Creek near Chambersburg	338	--
Barryville, N.Y., Delaware River at	43	--
Bear Creek near Ridgway	352	--
Beaver Creek at Rossville	330	--
near Turkey City	354	--
Beaver Run at Heathville	356	--
near Slickville	356	--
Beech Creek at Monument	265	--
Berne, Schuylkill River at	126	373
Bernville, Northkill Creek at	130	394
Tulpehocken Creek at	128	394
Big Mill Creek near Ridgway	352	--
Blanchard, Bald Eagle Creek at	263	--
Blockhouse Creek at Buttonwood	275	406
near English Center	281	412
tributary at Liberty	272	403
Boyers, Slippery Rock Creek at	358	--
Braddock, Monongahela River at	343	455
Brandycamp Creek near Elbon	352	--
Brandywine Creek at Chadds Ford	171	384
at Wilmington, Del	179	388
East Branch at Wawaset	205	--
below Downingtown	164	--
near Culpola	205	--
near Downingtown	205	--
near Struble Dam	205	--
West Branch at Modena	155	--
at Wawaset	205	--
near Coatesville	202	--
Bristol, Pa.-Burlington, N.J. Bridge, Delaware River at	99	--
Brockport, Mead Run at	352	--
Brockway, Little Toby Creek at	352	--
Browns Run at Warren	350	--
Brookville, Sandy Lick Creek near	354	--
Bruce Lake, contents of	208	--
Buck Run near Doe Run	202	--
Bucktown, Pigeon Creek near	196	--
Bull Creek at Tarentum	356	--
Bush Kill at Shoemakers	194	392
Bushkill, Little Bush Kill at	194	392
Buttonwood, Blockhouse Creek at	275	406
Steam Valley Run at	278	409
Callensburg, Canoe Creek at	354	--
Licking Creek at	354	--
Callicoon Creek at Callicoon, N.Y	32	--
Canoe Creek at Callensburg	354	--
Canoe Lake, contents of	333	--
Central City, Dark Shade Creek at	356	--
Chadds Ford, Brandywine Creek at	171	384
Chambersburg, Back Creek near	338	--
Charlestown, Pickering Creek at	199	--
Chemical records, section A	23	--
Chester Creek at Westtown School	202	--
near Milltown	202	--
near West Chester	202	--
Chester, Delaware River at	146	--
Chester Springs, Pickering Creek near	199	--
Chesterville, West Branch White Clay Creek near	202	--
Clarion, Toby Creek near	339	--
Clarion River at Ridgeway	352	--
at St. Petersburg	354	--
East Branch at East Branch Clarion River Dam	350	--
East Branch at Johnsonburg	350	--
West Branch at Wilcox	350	--
Clear Creek near Siegel	354	--
Coatesville, West Branch Brandywine Creek near	202	--
Coffee Run near Entriken	328	--
Collection and examination of data	15	--
Conestoga River at Lancaster	326	443
Conewago Lake, contents of	333	--
Conodoguinet Creek at Greider Bridge near West Hill	328	--
at Willow Mill Bridge near Hogestown	302	422
near Hogestown	330	--
tributary No. 1 near Enola	304	424
tributary No. 2 near Enola	306	427
tributary No. 2A near Enola	308	430
tributary No. 2B near Enola	310	433
tributary No. 3 at Enola	312	436
Cooksburg, Toms Run at	354	--
Cooperation	1	--
Coventryville, French Creek near	196	--
Cowanesque River at Cowanesque	233	449
at Nelson	237	450
at Westfield	229	448
near Lawrenceville	239	450
Crooked Creek at Middlebury Center	223	446
at Tioga	225	447
Crooked Creek Lake, contents of	360	--
Crossingville, Cussewago Creek at	350	--
Crum Creek, East Branch near Paoli	199	--
West Branch near Paoli	199	--
Cupola, East Branch Brandywine Creek near	205	--
Curwensville Lake, contents of	333	--
Cussewago Creek at Crossingville	350	--
Daguscahonda Creek at Daguscahonda	352	--
Dahoga, Wilson Run at	350	--
Daniels Run at Marianna	358	--
Danville, Susquehanna River at	250	401
Darby Creek at Waterloo Mills near Devon	199	--
Dark Shade Creek at Central City	356	--
Darlington, North Fork Little Beaver Creek at	358	--
Dauphin, Stony Creek above pump storage reservoir near	298	--
Stony Creek below pump storage reservoir near	300	--
Deer Creek at Piney	354	--
Definition of terms	2	--
Delaware Bay at Ship John Shoal Lighthouse, N.J	25	--
Delaware River at Barryville, N.Y	43	--
Delaware River at Benjamin Franklin Bridge, Philadelphia	116	--
at Bristol, Pa.-Burlington, N.J. Bridge	99	--
at Chester	146	--
at Delaware Memorial Bridge near Wilmington, Del	180	--
at Dunnfield, N.J. (Delaware Water Gap, Pa.)	56	367
at Easton	60	--
at Eddystone	145	--
at Fort Mifflin, Philadelphia	143	--
at League Island, Philadelphia	125	--
at Lehigh Avenue, Philadelphia	115	--
at Marcus Hook	153	--
at Marine Terminal, Trenton, N.J	95	--
at Narrowsburg, N.J	34	--
at Reedy Island Jetty Del	187	--
at Riegelsville, N.J	83	--
at Torresdale Intake at Philadelphia	107	--
at Trenton, N.J	84	370
at Wharton Street, Philadelphia	124	--
East Branch at Hancock, N.Y	29	--
near East Stroudsburg (near Tocks Island Damsite)	47	--
near Martins Creek	58	--
Delaware River basin, analyses of water-quality partial-record stations in	194	392
Devon, Darby Creek at Waterloo Mills near	199	--
Dingmans Creek at Dingmans Ferry	194	392
Doe Run, Buck Run near	202	--
near Springdale	205	--
Downingtown, East Branch Brandywine Creek below	164	--
East Branch Brandywine Creek near	205	--
Marsh Creek near	162	--
Downstream order and station number	14	--

Preceding page blank

	Page CBT	 S
Dunnfield, N.J., Delaware River at	56	367
Dutton Mill, Ridley Creek near	199	--
Eagle, Pickering Creek near	199	--
East Branch Brandywine Creek at Wawaset	205	--
near Cupola	205	--
near Downingtown	205	--
near Struble Dam	205	--
East Branch Clarion River at Johnsonburg	350	--
at East Branch Clarion River Dam	350	--
East Branch Crum Creek near Paoli	199	--
East Branch Delaware River at Hancock, N.Y	29	--
East Stroudsburg, Delaware River near	47	--
Easton, Delaware River at	60	--
Lehigh River at	76	--
Eddystone, Delaware River at	145	--
Egypt Meadow Lake, contents of	208	--
Elbon, Brandycamp Creek near	352	--
Elk Creek at Elkview	205	--
Elk Creek at Ridgway	352	--
near Oxford	205	--
Elkview, Elk Creek at	205	--
English Center, Blockhouse Creek near	281	412
Enola, Conodoguinet Creek tributary		
No. 1 near	304	424
No. 2 near	306	427
No. 2A near	308	430
No. 2B near	310	433
No. 3 at	312	436
Entriken, Coffee Run near	328	--
Raystown Lake near	290	--
Shy Beaver Creek near	328	--
Tatman Run near	328	--
Etna, Pine Creek at	356	--
Falls Creek, Kyle Run near	354	--
First Fork Sinnemahoning Creek near Sinnemahoning	--	452
Five Point, Red Clay Creek near	202	--
Fort Mifflin, Delaware River at Philadelphia at	143	--
French Creek at Phoenixville	196	--
near Coventryville	196	--
near Knaurertown	196	--
near Phoenixville	196	--
near Pughtown	196	--
near Trythall	196	--
West Branch near Hornby	350	--
Gettysburg, White Run near	338	--
Goose Creek near West Chester	202	--
Goshenville, Ridley Creek near	199	--
Great Bend, Susquehanna River near	216	--
Great Trough Creek near Marklesburg	328	--
Hallton, Spring Creek near	352	--
Hancock, N.Y., East Branch Delaware River at	29	--
Harrisburg, Susquehanna River at	314	439
Hawley, Lackawaxen River at	36	--
Heathville, Beaver Run at	356	--
Hesstown, Raystown Lake near	292	--
Hogestown, Conodoguinet Creek at Willow Mill Bridge near	302	422
Conodoguinet Creek near	330	--
Homecamp, Laborde Branch near	354	--
Hornby, West Branch French Creek near	350	--
Hunlock Creek, Susquehanna River near	245	451
Huntingdon, Raystown Lake near	293	--
Hustontown, Licking Creek near	338	--
Indian Run near Springton	205	--
Introduction	1	--
Jacobs Creek at Jacobs Creek	358	--
Johnsonburg, East Branch Clarion River at	350	--
Little Mill Creek near	350	--
Riley Run near	350	--
Jordan Creek near Pleasant Corners	69	393
near Schnecksville	74	394
Juniata River at Mapleton Depot	328	--
at Newport	296	418
Raystown Branch at Ardenheim	295	454
at Saxton	289	--
Kennett Square, Red Clay Creek near	202	--
Keystone Lake, contents of	360	--
Keystone State Park, McCune Run at	356	--
Kingston, Loyalhanna Creek at	459	--
Kirby, Whiteley Creek at	356	--
Knaurertown, French Creek near	196	--
Knoxville, Troups Creek at	235	449
Kooser Lake, contents of	360	--
Kresgeville, Pohopoco Creek at	65	--
Kyle Run near Falls Creek	354	--
Laborde Branch near Homecamp	354	--
Lackawaxen River at Hawley	36	--
at mouth at Lackawaxen	41	--
West Branch at Prompton	194	--
Lakes, contents of:		
Bruce Lake	208	--
Canoe Lake	333	--
Conewago Lake	333	--
Crooked Creek Lake	360	--
Curwensville Lake	333	--
Egypt Meadow Lake	208	--
Keystone Lake	360	--
Kooser Lake	360	--
Lake Jean	333	--
Lake Wilhelm	360	--
Lower Lake	208	--
Marsh Creek Lake	208	--
Nockamixon Lake	208	--
Promised Land Lake	208	--
Pymatuning Reservoir	360	--
Raystown Lake near Entriken	290	--
near Hesston	292	--
near Huntingdon	293	--
near Marklesburg	291	--
Sand Spring Lake	208	--
Lambs Creek, Tioga River at	217	445
Lancaster, Conestoga River at	326	443
Large, Peters Creek at	358	--
Laurel Hill Creek near Bakersville	358	--
Laurel Run near St. Marys	352	--
Lawrenceville, Cowanesque River near	239	450
Leatherwood Creek near New Bethlehem	356	--
League Island, Philadelphia, Delaware River at	125	--
Ledgedale, Wallenpaupack Creek at	39	--
Lehigh River at Easton	76	--
Lewisburg, West Branch Susquehanna River at	285	--
Liberty, Blockhouse Creek tributary at	272	403
Licking Creek at Callensburg	354	--
near Hustontown	338	--
Light Street, Applemans Run above	248	397
Applemans Run below	249	399
Lindley, N.Y., Tioga River at	242	395
Little Beaver Creek, North Fork at Darlington	358	--
Little Bush Kill at Bushkill	194	392
Little Mill Creek near Johnsonburg	350	--
Little Sandy Creek near North Freedom	356	--
Little Toby Creek at Brockway	352	--
at Portland Mills	352	--
Little Valley Creek near Valley Forge	199	--
Lower Lake, contents of	208	--
Loyalhanna Creek at Kingston	--	459
Lyon Creek at Lyon Valley	73	393
Manayunk, Philadelphia, Schuylkill River at	--	380
Mapleton Depot, Juniata River at	328	--
Marcus Hook, Delaware River at	153	--
Marianna, Daniels Run at	358	--
Marietta, Susquehanna River at	330	--
Marklesburg, Great Trough Creek near	328	--
Raystown Lake near	291	--
Marsh Creek Lake, contents of	208	--
Marsh Creek near Downingtown	162	--
Martins Creek, Delaware River near	58	--
McCune Run at Keystone State Park	356	--
Mead Run at Brockport	352	--
Middlebury Center, Crooked Creek at	223	446
Milesburg, Bald Eagle Creek near	261	--
Milford, Sawkill Creek at	194	392
Mill Creek at Westfield	231	448
near Schnecksville	73	393
near Strattanville	354	--
near Tioga	219	445
Milltown, Chester Creek near	202	--
Minister Creek near Truemans	350	--
Modena, West Branch Brandywine Creek at	155	--
Mongaup River near Mongaup, N.Y	45	--
Monongahela, Pigeon Creek at	358	--

	CBT	Page S
Monongahela River at Braddock	343	455
at lock and dam 8, at Point Marion	342	--
Monument, Beech Creek at	265	--
Mosgrove, North Fork Pine Creek near	356	--
Mount Holly Springs, Mountain Creek near.	330	--
Mountain Creek at Pine Grove Furnace	330	--
near Mount Holly Springs	330	--
Mullsteins Meadows, Valley Creek at	205	--
Narrowsburg, N.Y., Delaware River at	34	--
Nelson, Cowanesque River at	237	450
New Bethlehem, Leatherwood Creek near	356	--
New Kensington, Allegheny River at	341	--
Pucketa Creek at	356	--
Newport, Juniata River at	296	418
Nockamixon Lake, contents of	208	--
North Fork Little Beaver Creek at Darlington	358	--
North Fork Pine Creek near Mosgrove	356	--
North Freedom, Little Sandy Creek near	356	--
Northkill Creek at Bernville	130	394
Octoraro Creek near Atglen	332	--
Ohio River at Sewickley	349	--
Ohio River basin, analyses of water-quality partial-record stations in.	350	459
Oxford, Elk Creek near	205	--
Paden Creek near Pennline	358	--
Paoli, East Branch Crum Creek near	199	--
West Branch Crum Creek near	199	--
Parker Ford, Pigeon Creek near	196	--
Parrish, Wolf Run at	352	--
Parryville, Pohopoco Creek below Beltzville Dam near	67	--
Pennline, Paden Creek near	388	--
Peters Creek at Large	358	--
Philadelphia, Delaware River at Benjamin Franklin Bridge at	116	--
at Fort Mifflin	143	--
at League Island	125	--
at Lehigh Avenue	115	--
at Torresdale Intake at	107	--
at Wharton Street	124	--
Schuylkill River at	136	--
at Manayunk at	380	--
Phoenixville, French Creek at	196	--
French Creek near	196	--
Pickering Creek near	199	--
Pickering Creek at Charlestown	199	--
near Chester Springs	199	--
near Eagle	199	--
near Phoenixville	199	--
Pigeon Creek at Monongahela	358	--
near Bucktown	196	--
near Parker Ford	196	--
near Porters Mill	196	--
Pine Creek at Etna	356	--
North Fork near Mosgrove	356	--
Pine Grove Furnace, Mountain Creek near	330	--
Piney, Deer Creek at	354	--
Piney Creek at Piney	354	--
Pleasant Corners, Jordan Creek near	69	393
Switzer Creek near	70	393
Pohopoco Creek at Kresgeville	65	--
below Beltzville Dam near Parryville	67	--
Point Marion, Monongahela River at lock and dam 8, at	342	--
Porters Mill, Pigeon Creek near	196	--
Portland Mills, Little Toby Creek at	352	--
Potomac River Basin, analyses of water-quality partial-record stations in.	338	--
Powers Run at mouth	350	--
Promised Land Lake, contents of	208	--
Prompton, West Branch Lackawaxen River at	194	--
Pucketa Creek at New Kensington	356	--
Pughtown, French Creek near	196	--
Pymatuning Reservoir, contents of	360	--
Raccoon Creek State Park, Traverse Creek at	358	--
Rasselas, Sevenmile Run near	350	--
Raymondskill Creek near Silver Spring	194	--
Raystown Branch Juniata River		
at Ardenheim	295	454
at Saxton	289	--
Raystown Lake near Entriken	290	--
near Hesstown	292	--
near Huntington	293	--
near Marklesburg	291	--

	CBT	Page S
Reading, Tulpehocken Creek at Blue Marsh damsite near	132	377
Red Clay Creek near Five Point	202	--
near Kennett Square	202	--
Redbank Creek at St. Charles	340	--
Redstone Creek at Waltersburg	358	--
Reedy Island Jetty, Del., Delaware River at	187	--
Renovo, West Branch Susquehanna River at.	253	--
Young Womans Creek near	258	453
Ridgway, Bear Creek near	352	--
Big Mill Creek near	352	--
Clarion River at	352	--
Elk Creek at	352	--
Ridley Creek near Goshenville	199	--
near Dutton Mill	199	--
Riegelsville, N.J., Delaware River at	83	--
Riley Run near Johnsonburg	350	--
Rossville, Beaver Creek at	330	--
St. Charles, Redbank Creek at	340	--
St. Marys, Laurel Run near	352	--
St. Petersburg, Clarion River at	354	--
Sand Spring Lake, contents of	208	--
Sandy Lick Creek near Brookville	354	--
Sawkill Creek at Milford	194	392
Saxton, Raystown Branch Juniata River at.	289	--
Shoup Run at	328	--
Schnecksville, Jordan Creek near	74	394
Mill Creek near	73	393
Schuylkill River at Berne	126	373
at Manayunk, Philadelphia	--	380
at Philadelphia	136	--
Sediment records, section B	--	365
Selected references	19	--
Sevenmile Run near Rasselas	350	--
Sewickley, Ohio River at	349	--
Ship John Shoal Lighthouse, N.J., Delaware Bay at	25	--
Shoemakers, Bush Kill at	194	392
Shoup Run at Saxton	328	--
Shy Beaver Creek near Entriken	328	--
Siegel, Clear Creek near	354	--
Silver Spring, Raymondskill Creek near	194	--
Sinnemahoning Creek, First Fork near Sinnemahoning	--	452
Slickville, Beaver Run near	356	--
Slippery Rock Creek at Boyers	352	--
Special networks and programs	12	--
Spring City, Stony Run at	196	--
Stony Run near	196	--
Springdale, Doe Run near	205	--
Spring Creek near Hallton	352	--
Springton, Indian Run near	205	--
Stony Creek above pump-storage reservoir near Dauphin	298	--
below pump-storage reservoir near Dauphin	300	--
Stony Run at Spring City	196	--
near Spring City	196	--
Strattanville, Mill Creek near	354	--
Steam Valley Run at Buttonwood	278	409
Struble Dam, East Branch Brandywine Creek near	205	--
Sunbury, Susquehanna River at	286	453
Susquehanna River at Danville	250	401
at Harrisburg	314	439
at Marietta	330	--
at Sunbury	286	453
near Great Bend	216	--
near Hunlock Creek	245	451
West Branch at Lewisburg	285	--
at Renovo	253	--
at Watsontown	284	415
at Williamsport	328	--
Susquehanna River basin, analyses of water-quality partial-record stations in	328	445
Switzer Creek near Pleasant Corners	70	393
Tarentum, Bull Creek at	356	--
Tatman Run near Entriken	328	--
Tioga, Crooked Creek at	225	447
Mill Creek near	219	445
Tioga River at	221	446
Tioga Junction, Tioga River at	227	447
Tioga River at Lambs Creek	217	445
at Lindley, N.Y	242	395
at Tioga	221	446
at Tioga Junction	227	447

	Page	
	CBT	S
Toby Creek near Clarion	339	--
Toms Run at Cooksburg	354	--
Traverse Creek at Raccoon Creek State Park	358	--
Trenton, N.J., Delaware River at	84	370
Delaware River at Marine Terminal at	95	--
Troups Creek at Knoxville	235	449
Truemans, Minister Creek near	350	--
Trythall, French Creek near	196	--
Tulpehocken Creek at Bernville	128	394
at Blue Marsh damsite near Reading	132	377
Turkey City, Beaver Creek near	354	--
Valley Creek at Mullsteins Meadows	205	--
near Atglen	332	--
near Valley Forge	199	--
Valley Forge, Little Valley Creek near	199	--
Valley Creek near	199	--
Wallenpaupack Creek at Ledgedale	39	--
Walnut Bottom, Yellow Breeches Creek near	330	--
Waltersburg, Redstone Creek at	358	--
Warren, Browns Run at	350	--
Water quality records	25	--
Water-supply papers	18	--
Waterloo Mills, Darby Creek near Devon at	199	--
Watsontown, West Branch Susquehanna River at	284	415
Wawaset, East Branch Brandywine Creek at	205	--
West Branch Brandywine Creek at	205	--
West Branch Brandywine Creek at Modena	155	--
at Wawaset	205	--
near Coatesville	202	--
West Branch Clarion River at Wilcox	350	--
West Branch Crum Creek near Paoli	199	--
West Branch French Creek near Hornby	350	--
West Branch Lackawaxen River at Prompton	194	--
West Branch Susquehanna River at Lewisburg	285	--
at Renovo	253	--
at Watsontown	218	415
at Williamsport	328	--
West Branch White Clay Creek near Chesterville	202	--
West Chester, Chester Creek near	202	--
Goose Creek near	202	--
West Hickory Creek near West Hickory	350	--
West Hill, Conodoguinet Creek at Greider Mill Bridge near	328	--
Westfield, Cowanesque River at	229	448
Mill Creek at	231	448
Westtown School, Chester Creek at	202	--
White Clay Creek near Avondale	202	--
near Wickerton	202	--
West Branch near Chesterville	202	--
White Run near Gettysburg	338	--
Whitely Creek at Kirby	356	--
Wickerton, White Clay Creek near	202	--
Wilcox, West Branch Clarion River at	350	--
Wilhelm Lake, contents of	360	--
Williamsport, West Branch Susquehanna River at	328	--
Wilmington, Del., Brandywine Creek at	179	388
Delaware River at Delaware Memorial Bridge near	180	--
Wilson Run at Dahoga	350	--
Wolf Run at Parrish	352	--
Yellow Breeches Creek near Walnut Bottom	330	--
Young Womans Creek near Renovo	258	453

U.S. GOVERNMENT PRINTING OFFICE: 1975— 608-676:4

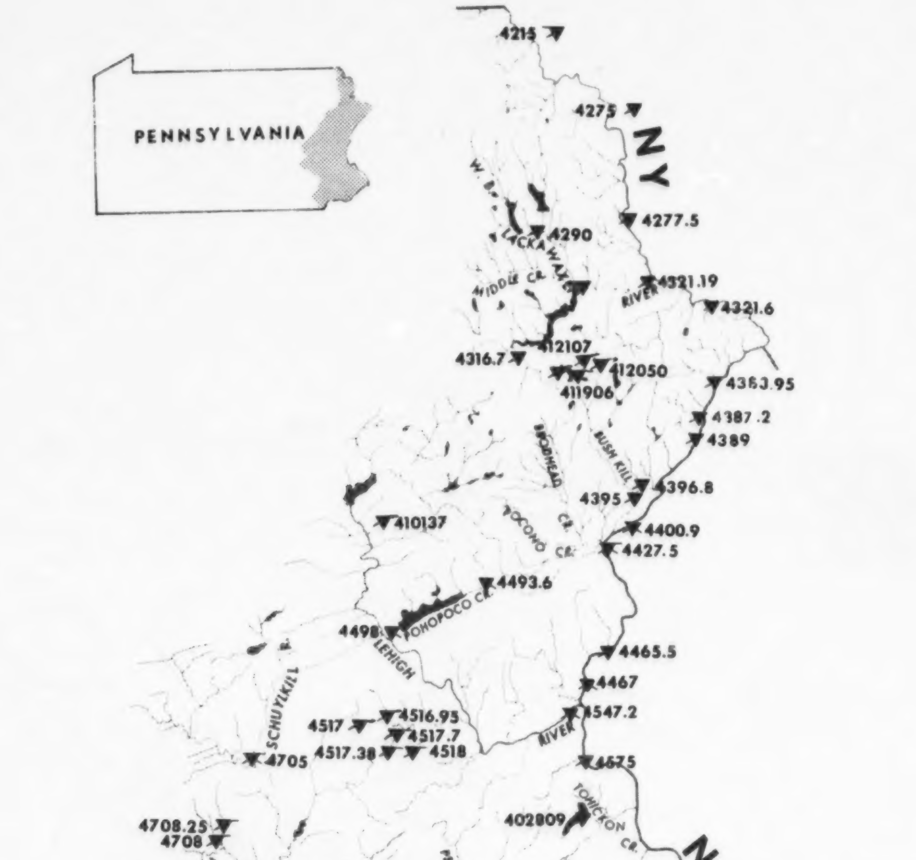
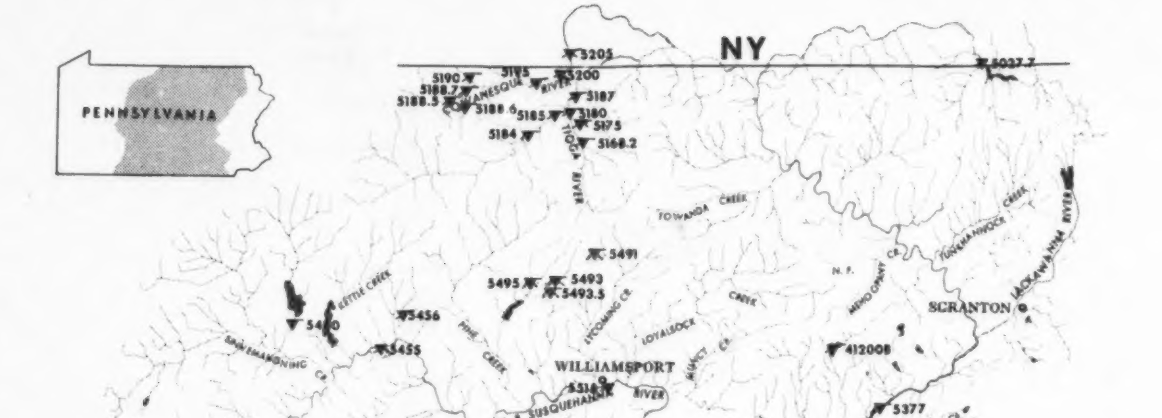

PENNSYLVANIA
NY
NJ
MD
DEL
PHILADELPHIA
W. BR.
LACKAWAXEN
MIDDLE CR.
RIVER
BRODHEAD
BUSH KILL
POCONO CR.
POHOPOCO CR.
LEHIGH
RIVER
SCHUYLKILL
TULPEHOCKEN
CREEK
SCHUYLKILL
RIVER
PERKIOMEN
CREEK
TOHICKON CR.
NESHAMINY CR.
WISSAHICKON CR.
RIVER
BRANDYWINE CR.
DELAWARE
4215
4275
4277.5
4290
4321.19
4321.6
412107
4316.7
412050
411906
4363.95
4387.2
4389
4396.8
4395
410137
4400.9
4427.5
4493.6
4498
4465.5
4467
4547.2
4517
4516.95
4517.7
4517.38
4518
4705
4575
402809
4708.25
4708
4709.6
4635
4640.4
4646
4806.85
400318
4807
4808.7
4806.17
4738
4745
4670.3
4671
4672
4673
4674
4747.03
4810
4770.5
4772
4815
4821
4828
NOTE: THE PART NUMBER (01) HAS BEEN OMITTED FROM THE STATION NUMBER ON THIS MAP.
EXPLANATION
▼4745 STREAM STATION
▼410137 LAKE STATION
▼ CHEMICAL DATA
▼ TEMPERATURE DATA
▼ SEDIMENT DATA
▼ BIOLOGICAL DATA

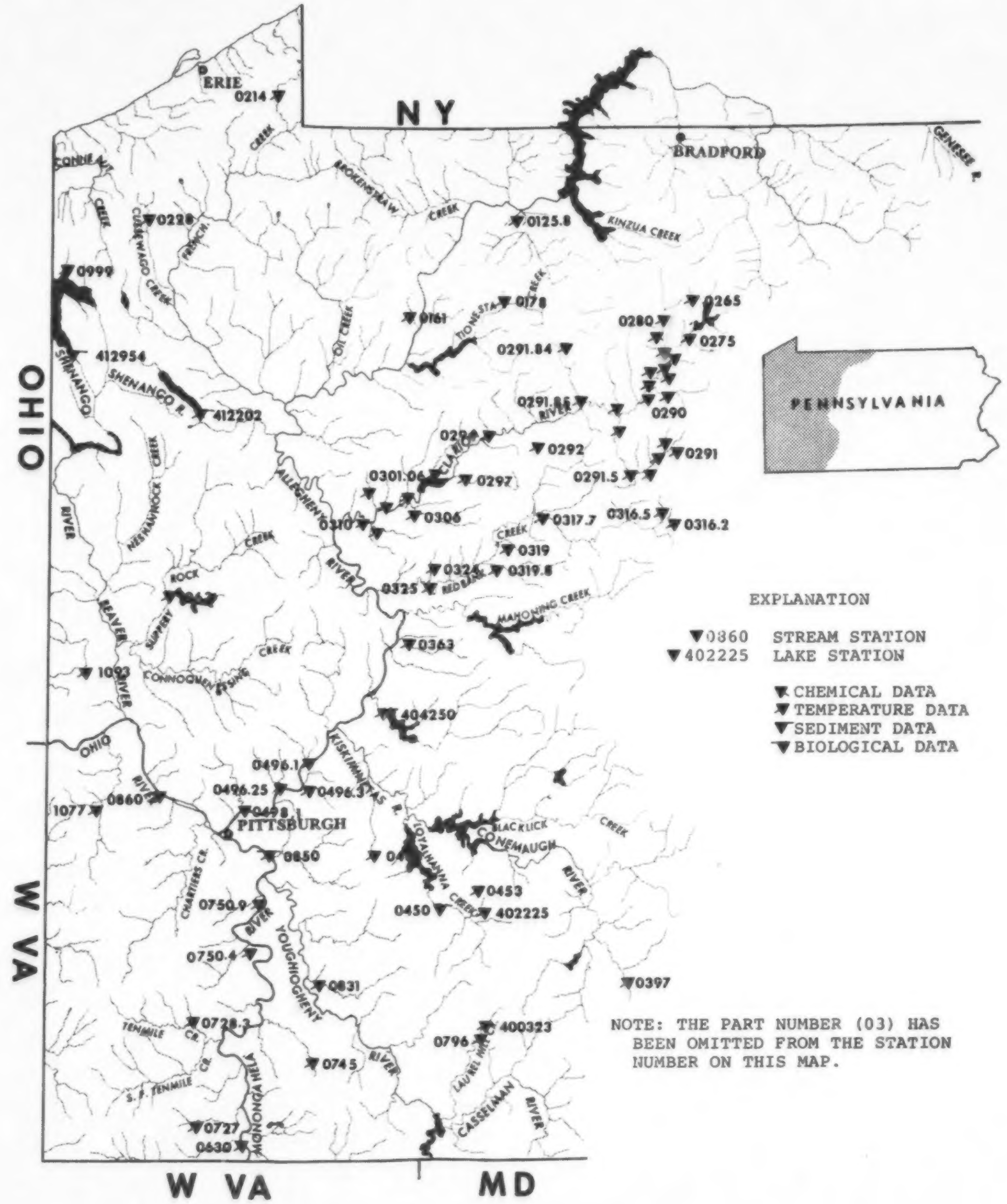
Figure 7.--Map of Delaware River basin showing locations of water-quality stations.


NY
MD
PENNSYLVANIA
EXPLANATION
▼5705 STREAM STATION
▼402937 LAKE STATION
▼ CHEMICAL DATA
▼ TEMPERATURE DATA
▼ SEDIMENT DATA
▼ BIOLOGICAL DATA
SCRANTON
WILLIAMSPORT
ALTOONA
HARRISBURG
5205
5200
5195
5190
5188.7
5188.5
5188.6
5187
5185
5180
5175
5184
5168.2
COWANESQUE RIVER
TIOGA RIVER
TOWANDA CREEK
5491
5495
5493
5493.5
LYCOMING CR.
LOYALSOCK CREEK
MUNCY CR.
TUNKHANNOCK CREEK
LACKAWANNA RIVER
MESHOPPEN CR.
412008
5377
5392
5392.1
WAPWALLOPEN CR.
FISHING CR.
5460
KETTLE CREEK
5456
5455
SINNEMAHONING CR.
PINE CREEK
5516
W. B. SUSQUEHANNA RIVER
5531.15
5479.5
5473
5474
N. BALD EAGLE CREEK
LITTLE FISHING CREEK
405713
CLEARFIELD CREEK
MOSHANNON CREEK
5535
5540
SHAMOKIN CR.
PENN CREEK
MIDDLE CREEK
MAHANOY CR.
E. MAHANTANGO CR.
WICONISCO CR.
LITTLE JUNIATA RIVER
STANDING STONE CR.
JUNIATA RIVER
402937
402535
5632.1
5629
402117
5625
5623.5
401842
5622
5622.5
5620.1
5620
AUGHWICK CR.
TUSCARORA CREEK
SHERMAN CREEK
5670
5687.5
5687
STONY CR.
SWATARA CR.
5702.6
5702.3
5702
5703
5705
5699.8
5700
5697
CONODOGUINET CREEK
5711.1
YELLOW BREECHES CREEK
5711.9
5711.85
400520
W. CONEWAGO CR.
CODORUS CR.
SUSQUEHANNA RIVER
5765
CONESTOGA CREEK
5760
PEQUEA CR.
5783.4
5783.43
5783.45
MUDDY CREEK
5739.4
6134.5
6141.4
6389
RAYSTOWN BR.
LICKING CREEK
WILLS CR.
EVITTS CR.

NOTE: THE PART NUMBER (01) HAS BEEN OMITTED FROM THE STATION NUMBER ON THIS MAP.

Figure 8.--Map of Susquehanna and Potomac River basins showing locations of water-quality stations.

466



ERIE
0214
NY
BRADFORD
GENESEE R.
CONNEAUT
CREEK
CONEWAGO CREEK
FRENCH
CREEK
0228
BROKENSTRAW
CREEK
0125.8
KINZUA CREEK
0999
OIL CREEK
0161
TIONESTA
CREEK
0178
0265
0280
0275
0291.84
OHIO
SHENANGO
412954
SHENANGO R.
412202
0291.85
RIVER
0290
0294
CLARION
0292
0291
0301.06
0297
0291.5
ALLEGHENY
0310
0306
0317.7
0316.5
0316.2
CREEK
0319
0324
0319.8
0325
REDBANK
RIVER
NESHANNOCK
CREEK
RIVER
ROCK
SLIPPERY
CREEK
MAHONING CREEK
BEAVER
1093
CONNOQUENESSING
CREEK
RIVER
0363
404250
OHIO
RIVER
0496.1
KISKIMINETAS R.
0496.25
0496.3
1077
0860
0498
PITTSBURGH
BLACKLICK
CREEK
CONEMAUGH
RIVER
CHARTIERS CR.
0850
LOYALHANNA CREEK
0453
W VA
0750.9
RIVER
YOUGHIOGHENY
0450
402225
0750.4
0831
0397
TENMILE CR.
0728.2
0796
400323
0745
RIVER
S. F. TENMILE CR.
LAUREL HILL
CASSELMAN
RIVER
MONONGAHELA
0727
0630
W VA
MD
PENNSYLVANIA
EXPLANATION
▼0860 STREAM STATION
▼402225 LAKE STATION
▼ CHEMICAL DATA
▼ TEMPERATURE DATA
▼ SEDIMENT DATA
▼ BIOLOGICAL DATA
NOTE: THE PART NUMBER (03) HAS BEEN OMITTED FROM THE STATION NUMBER ON THIS MAP.

Figure 9.--Map of Ohio River basin showing locations of water-quality stations.